



JUN 04 2004

GC773-2-seqlist

SEQUENCE LISTING

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Yao, Jian

<120> Methods for Modulating Proteins Not
Previously Known as Proteases

<130> GC773-2

<140> US 10/618,281
<141> 2003-07-11

<150> US 60/395,325
<151> 2002-07-12

<160> 92

<170> FastSEQ for Windows Version 4.0

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<212> PRT
<213> Homo sapiens

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Gly Leu Ala Val Gly Leu Thr Arg Ser Cys Asp Ser Ser Gly Asp Gly
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Gly Leu Gly Thr Val Pro Ala Pro Ser His Leu Pro Ser Ser Thr Ala
35 40 45
Ser Pro Ser Gly Pro Pro Ala Gln Asp Gln Asp Ile Cys Pro Ser Ser
50 55 60
Glu Asp Glu Ser Gly Gln Trp Lys Asn Phe Thr Ala Glu Leu Arg Gln
65 70 75 80
Pro Gly Pro Asp Leu His Val Lys Pro Leu Leu Glu Glu Asp Thr Tyr
85 90 95
Thr Gly Thr Val Ser Ile Ser Ile Asn Leu Ser Thr Pro Thr Arg His
100 105 110
Leu Trp Leu His Leu Gly Glu Ser Arg Ile Thr Trp Leu Pro Asp Thr
115 120 125
Arg His Leu Trp Leu His Leu Gln Glu Thr Arg Ile Thr Trp Leu Pro
130 135 140
Glu Met Lys Arg Pro Ser Gly Asp Gln Val Gln Ile Arg Arg Cys Phe
145 150 155 160
Glu Tyr Lys Lys Gln Glu Tyr Val Val Val Glu Ala Glu Glu Glu Ser
165 170 175
Gly Asp Gly Leu Tyr Leu Leu Thr Met Glu Phe Ala Gly Trp Leu Asn
180 185 190
Ser Ser Leu Leu Gly Phe Thr Tyr Thr Glu Asn Gly Gln Val Lys Ser
195 200 205
Ile Ala Ala Thr Asp His Glu Pro Thr Asp Ala Arg Lys Phe Phe Pro
210 215 220
Cys Phe Asp Lys Pro Asn Lys Lys Ala Thr Tyr Thr Ile Ser Val Thr
225 230 235 240
His Pro Lys Glu Tyr Glu Ala Leu Ser His Met Pro Val Ala Lys Glu
245 250 255
Glu Ser Val Asp Asp Lys Trp Asn Gln Thr Thr Phe Lys Lys Ser Val

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260	265	270
Pro Met Ser Met Tyr Leu Val Cys	Phe Ala Val His Gln	Phe His Thr
275	280	285
Val Lys Thr Ile Ser Asp Ile Gly	Lys Pro Val Ser Leu Ile Ile	
290	295	300

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<211> 407
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<400> 2

Met Ser Pro Pro Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu			
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Leu Arg Gln Val His Pro Gly Arg Arg Thr Leu Asn Leu Leu Arg Gly			
35	40	45	
Trp Gly Lys Pro Ala Glu Leu Pro Lys Leu Gly Pro Ser Pro Gly Asp			
50	55	60	
Lys Pro Ala Ser Val Pro Leu Ser Lys Phe Leu Asp Ala Gln Tyr Phe			
65	70	75	80
Gly Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe			
85	90	95	
Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe			
100	105	110	
Phe Ser Val Pro Cys Trp Phe His His Arg Phe Asn Pro Asn Ala Ser			
115	120	125	
Ser Ser Phe Lys Pro Ser Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr			
130	135	140	
Gly Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly			
145	150	155	160
Ile Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Glu Ser Ser			
165	170	175	
Leu Val Phe Thr Val Ser Arg Pro Asp Gly Ile Leu Arg Leu Gly Phe			
180	185	190	
Pro Ile Leu Ser Val Glu Gly Val Arg Pro Pro Leu Asp Val Leu Val			
195	200	205	
Glu Gln Gly Leu Leu Asp Lys Pro Val Phe Ser Phe Tyr Phe Asn Arg			
210	215	220	
Cys Trp Gly Gly xaa Gly Cys Ala Met Tyr Cys Arg Ile Val Arg			
225	230	235	240
Leu Glu Asp Pro Leu Asp Thr Gly Thr Pro Val Ile Val Gly Pro Thr			
245	250	255	
Glu Glu Ile Gly Pro Cys Met Gln Pro Leu Gly Glu Ser Leu Leu Ala			
260	265	270	
Gly Glu Tyr Ile Ile Arg Cys Ser Glu Ile Pro Lys Leu Pro Ala Val			
275	280	285	
Ser Leu Leu Ile Gly Gly Val Trp Phe Asn Leu Thr Ala Gln Asp Tyr			
290	295	300	
Val Ile Gln Phe Ala Gln Gly Asp Val Arg Leu Cys Leu Ser Gly Phe			
305	310	315	320
Arg Ala Leu Asp Ile Ala Ser Pro Pro Val Pro Val Trp Ile Leu Gly			
325	330	335	
Asp Val Phe Leu Gly Ala Tyr Val Thr Val Phe Asp Arg Gly Asp Met			
340	345	350	
Lys Ser Gly Ala Arg Val Gly Leu Ala Arg Ala Arg Pro Gly Ala Asp			
355	360	365	

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Leu Gly Arg Arg Glu Thr Gln Ala Gln Tyr Arg Gly Cys Arg Pro Gly
370 375 380
Asp His Ala His Arg Val Ala Leu Ala Leu Leu Ser Lys Asn Pro Ile
385 390 395 400
Phe Pro Leu Asn Glu Pro Ala
405

<210> 3
<211> 122
<212> PRT
<213> Homo sapiens

<400> 3
Met Asp Thr Ala Ala Lys Ala Ile Ile Leu Glu Gln Ser Gly Lys Asn
1 5 10 15
Gln Gly Tyr Arg Asp Ala Asp Ile Arg Ser Phe Trp Pro Glu Gly Gly
20 25 30
Val Cys Leu Pro Gly Ser Pro Asp Val Leu Glu Ser Gly Val Cys Met
35 40 45
Lys Ala Val Cys Lys Arg Val Ala Val Glu Gly Val Asp Val Ile Phe
50 55 60
Ser Arg Asp Ala Gly Arg Tyr Val Cys Asp Tyr Thr Tyr Tyr Leu Ser
65 70 75 80
Leu His His Gly Lys Cys Ala Ala Leu Ile His Val Pro Pro Leu
85 90 95
Ser Arg Gly Leu Pro Ala Ser Leu Leu Gly Arg Ala Leu Arg Val Ile
100 105 110
Ile Gln Glu Met Leu Glu Glu Val Gly Lys
115 120

<210> 4
<211> 393
<212> PRT
<213> Homo sapiens

<400> 4
Ile Tyr Val Ser Ser Trp Ala Val Gln Val Ser Gln Gly Asn Arg Glu
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Val Glu Arg Leu Ala Arg Lys Phe Gly Phe Val Asn Leu Gly Pro Ile
20 25 30
Phe Pro Asp Gly Gln Tyr Phe His Leu Arg His Arg Gly Val Val Gln
35 40 45
Gln Ser Leu Thr Pro His Trp Gly His Arg Leu His Leu Lys Lys Asn
50 55 60
Pro Lys Val Gln Trp Phe Gln Gln Thr Leu Gln Arg Arg Val Lys
65 70 75 80
Arg Ser Val Val Val Pro Thr Asp Pro Trp Phe Ser Lys Gln Trp Tyr
85 90 95
Met Asn Ser Glu Ala Gln Pro Asp Leu Ser Ile Leu Gln Ala Trp Ser
100 105 110
Gln Gly Leu Ser Gly Gln Gly Ile Val Val Ser Val Leu Asp Asp Gly
115 120 125
Ile Glu Lys Asp His Pro Asp Leu Trp Ala Asn Tyr Asp Pro Leu Ala
130 135 140
Ser Tyr Asp Phe Asn Asp Tyr Asp Pro Asp Pro Gln Pro Arg Tyr Thr
145 150 155 160
Pro Ser Lys Glu Asn Arg His Gly Thr Arg Cys Ala Gly Glu Val Ala
165 170 175
Ala Met Ala Asn Asn Gly Phe Cys Gly Val Gly Val Ala Phe Asn Ala
180 185 190
Arg Ile Gly Gly Val Arg Met Leu Asp Gly Thr Ile Thr Asp Val Ile
195 200 205
Glu Ala Gln Ser Leu Ser Leu Gln Pro Gln His Ile His Ile Tyr Ser

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210	215	220
Ala Ser Trp Gly Pro Glu Asp Asp Gly Arg Thr Val Asp Gly Pro Gly		
225 230 235 240		
Ile Leu Thr Arg Glu Ala Phe Arg Arg Gly Val Thr Lys Gly Arg Gly		
245 250 255		
Gly Leu Gly Thr Leu Phe Ile Trp Ala Ser Gly Asn Gly Gly Leu His		
260 265 270		
Tyr Asp Asn Cys Asn Cys Asp Gly Tyr Thr Asn Ser Ile His Thr Leu		
275 280 285		
Ser Val Gly Ser Thr Thr Gln Gln Gly Arg Val Pro Trp Tyr Ser Glu		
290 295 300		
Ala Cys Ala Ser Thr Leu Thr Thr Tyr Ser Ser Gly Val Ala Thr		
305 310 315 320		
Asp Pro Gln Ile Val Thr Thr Asp Leu His His Gly Cys Thr Asp Gln		
325 330 335		
His Thr Gly Thr Ser Ala Ser Ala Pro Leu Ala Ala Gly Met Ile Ala		
340 345 350		
Leu Ala Leu Glu Ala Asn Pro Phe Leu Thr Trp Arg Asp Met Gln His		
355 360 365		
Leu Val Val Arg Ala Ser Lys Pro Ala His Leu Gln Ala Glu Asp Trp		
370 375 380		
Arg Thr Asn Gly Val Gly Arg Gln Gly		
385 390		

<210> 5

<211> 153

<212> PRT

<213> Homo sapiens

<400> 5

Leu Val Gly Tyr Ala Ile Gln Tyr Gly Cys Ile Ala His Cys Ala Ser			
1 5 10 15			
Glu Tyr Val Gly Gly Val Val Met Cys Ser Gly Pro Ser Met Glu Pro			
20 25 30			
Thr Ile Gln Asn Ser Asp Thr Val Phe Ala Gln Asn Leu Ser Arg His			
35 40 45			
Phe Asp Ser Ile Gln Arg Gly Asp Ile Val Ile Ala Lys Ser Pro Ser			
50 55 60			
Asp Pro Thr Ser Asn Ile Cys Lys Arg Val Thr Gly Leu Glu Gly Asp			
65 70 75 80			
Lys Ile Leu Thr Thr Ser Pro Ser Asp Phe Phe Lys Ser Tyr Ser Tyr			
85 90 95			
Val Pro Val Gly His Val Trp Leu Glu Gly Asp Leu Gln Asn Ser Thr			
100 105 110			
Asp Ser Ser Tyr Tyr Gly Pro Ile Pro Tyr Glu Leu Ile Arg Gly Arg			
115 120 125			
Ile Phe Phe Ile Arg Pro Leu Ser Asp Phe Gly Phe Leu Cys Ala Ser			
130 135 140			
Leu Asn Gly His Arg Phe Ser Asp Asp			
145 150			

<210> 6

<211> 396

<212> PRT

<213> Homo sapiens

<400> 6

Met Leu Ile Thr Val Tyr Cys Val Arg Arg Asp Leu Ser Glu Val Thr			
1 5 10 15			
Phe Ser Leu Gln Val Ser Pro Asp Phe Glu Leu Arg Asn Phe Lys Val			
20 25 30			
Leu Cys Glu Ala Glu Ser Arg Val Pro Val Glu Glu Ile Gln Ile Ile			
35 40 45			

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His Met Glu Arg Leu Leu Ile Glu Asp His Cys Ser Leu Gly Ser Tyr
 50 55 60
 Gly Leu Lys Asp Gly Asp Ile Val Val Leu Leu Gln Lys Asp Asn Val
 65 70 75 80
 Gly Pro Arg Ala Pro Gly Arg Ala Pro Asn Gln Pro Arg Val Asp Phe
 85 90 95
 Ser Gly Ile Ala Val Pro Gly Thr Ser Ser Ser Arg Pro Gln His Pro
 100 105 110
 Gly Gln Gln Gln Arg Thr Pro Ala Ala Gln Arg Ser Gln Gly Leu
 115 120 125
 Ala Ser Gly Glu Lys Val Ala Gly Leu Gln Gly Leu Gly Ser Pro Ala
 130 135 140
 Leu Ile Arg Ser Met Leu Leu Ser Asn Pro His Asp Leu Ser Leu Leu
 145 150 155 160
 Lys Glu Arg Asn Pro Pro Leu Ala Glu Ala Leu Leu Ser Gly Ser Leu
 165 170 175
 Glu Thr Phe Ser Gln Val Leu Met Glu Gln Gln Arg Glu Lys Ala Leu
 180 185 190
 Arg Glu Gln Glu Arg Leu Arg Leu Tyr Thr Ala Asp Pro Leu Asp Arg
 195 200 205
 Glu Ala Gln Ala Lys Ile Glu Glu Glu Ile Arg Gln Gln Asn Ile Glu
 210 215 220
 Glu Asn Met Asn Ile Ala Ile Glu Glu Ala Pro Glu Ser Phe Gly Gln
 225 230 235 240
 Val Thr Met Leu Tyr Ile Asn Cys Lys Val Asn Gly His Pro Leu Lys
 245 250 255
 Ala Phe Val Asp Ser Gly Ala Gln Met Thr Ile Met Ser Gln Ala Cys
 260 265 270
 Ala Glu Arg Cys Asn Ile Met Arg Leu Val Asp Arg Arg Trp Ala Gly
 275 280 285
 Val Ala Lys Gly Val Gly Thr Gln Arg Ile Ile Gly Arg Val His Leu
 290 295 300
 Ala Gln Ile Gln Ile Glu Gly Asp Phe Leu Gln Cys Ser Phe Ser Ile
 305 310 315 320
 Leu Glu Asp Gln Pro Met Asp Met Leu Leu Gly Leu Asp Met Leu Arg
 325 330 335
 Arg His Gln Cys Ser Ile Asp Leu Lys Lys Asn Val Leu Val Ile Gly
 340 345 350
 Thr Thr Gly Thr Gln Thr Tyr Phe Leu Pro Glu Gly Glu Leu Pro Leu
 355 360 365
 Cys Ser Arg Met Val Ser Gly Gln Asp Glu Ser Ser Asp Lys Glu Ile
 370 375 380
 Thr His Ser Val Met Asp Ser Gly Arg Lys Glu His
 385 390 395

<210> 7

<211> 469

<212> PRT

<213> Homo sapiens

<400> 7

His Gly Arg Val Leu Leu Pro Leu Asn Leu Gln Leu Gly Ala Lys Val
 1 5 10 15
 Ser Phe Val Cys Asp Glu Gly Phe Arg Leu Lys Gly Arg Ser Ala Ser
 20 25 30
 His Cys Val Leu Ala Gly Met Lys Ala Leu Trp Asn Ser Ser Val Pro
 35 40 45
 Val Cys Glu Arg Ile Ile Cys Gly Leu Pro Pro Thr Ile Ala Asn Gly
 50 55 60
 Asp Phe Thr Ser Ile Ser Arg Glu Tyr Phe His Tyr Gly Ser Val Val
 65 70 75 80
 Thr Tyr His Cys Asn Leu Gly Ser Arg Gly Lys Lys Val Phe Glu Leu
 85 90 95

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val Gly Glu Pro Ser Ile Tyr Cys Thr Ser Lys Asp Asp Gln Val Gly
100 105 110
Ile Trp Ser Gly Pro Ala Pro Gln Cys Ile Ile Pro Asn Lys Cys Thr
115 120 125
Pro Pro Asn Val Glu Asn Gly Ile Leu Val Ser Asp Asn Arg Ser Leu
130 135 140
Phe Ser Leu Asn Glu Val Val Glu Phe Arg Cys Gln Pro Gly Phe Gly
145 150 155 160
Met Lys Gly Pro Ser His Val Lys Cys Gln Ala Leu Asn Lys Trp Glu
165 170 175
Pro Glu Leu Pro Ser Cys Ser Arg Val Cys Gln Pro Pro Pro Asp Val
180 185 190
Leu His Ala Glu Arg Thr Gln Arg Asp Lys Asp Asn Phe Ser Pro Gly
195 200 205
Gln Glu Val Phe Tyr Ser Cys Glu Pro Gly Tyr Asp Leu Arg Gly Ser
210 215 220
Thr Tyr Leu His Cys Thr Pro Gln Gly Asp Trp Ser Pro Ala Ala Pro
225 230 235 240
Arg Cys Glu Val Lys Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro Asn
245 250 255
Gly His Val Leu Phe Pro Leu Asn Leu Gln Leu Gly Ala Lys Val Asp
260 265 270
Phe Val Cys Asp Glu Gly Phe Gln Leu Lys Gly Ser Ser Ala Ser Tyr
275 280 285
Cys Val Leu Ala Gly Met Glu Ser Leu Trp Asn Ser Ser Val Pro Val
290 295 300
Cys Glu Arg Lys Ser Cys Glu Thr Pro Pro Val Pro Val Asn Gly Met
305 310 315 320
Val His Val Ile Thr Asp Ile His Val Gly Ser Arg Ile Asn Tyr Ser
325 330 335
Cys Thr Thr Gly Ser Ala Ser His Cys Val Leu Ala Gly Thr Lys Ala
340 345 350
Leu Trp Asn Ser Ser Val Pro Val Cys Glu Gln Ile Phe Cys Pro Asn
355 360 365
Pro Pro Ala Ile Leu Asn Gly Arg His Thr Gly Thr Pro Pro Gly Asp
370 375 380
Ile Pro Tyr Gly Lys Glu Val Ser Tyr Thr Cys Asp Pro His Pro Asp
385 390 395 400
Arg Gly Met Thr Phe Asn Leu Ile Gly Glu Ser Thr Ile Arg Arg Thr
405 410 415
Ser Glu Pro His Gly Asn Gly Val Trp Ser Ser Pro Ala Pro Arg Cys
420 425 430
Glu Leu Pro Val Gly Ala Val Ile Phe Ser Thr His Leu Ile Thr Leu
435 440 445
Phe Tyr Cys Leu Gly Thr Leu Leu Gly Thr Ile Ile Phe Ile Leu Ile
450 455 460
Ile Ile Phe Leu Tyr
465

<210> 8

<211> 556

<212> PRT

<213> Homo sapiens

<400> 8

Gly Gly Gly Ser Pro Gly Trp Gly Cys Ala Gly Ile Pro Asp Ser Ala
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Pro Gly Ala Gly Val Leu Gln Ala Gly Ala Val Gly Pro Ala Arg Gly
20 25 30
Gly Gln Gly Ala Glu Glu Val Gly Glu Ser Ala Gly Gly Glu Glu
35 40 45
Arg Arg Val Arg His Pro Gln Ala Pro Ala Leu Arg Leu Leu Asn Arg
50 55 60

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Lys Pro Gln Gly Gly Ser Gly Glu Ile Lys Thr Pro Glu Asn Asp Leu
 65 70 75 80
 Gln Arg Gly Arg Leu Ser Arg Gly Pro Arg Thr Ala Pro Pro Ala Pro
 85 90 95
 Gly Met Gly Asp Arg Ser Gly Gln Gln Glu Arg Ser Val Pro His Ser
 100 105 110
 Pro Gly Ala Pro Val Gly Thr Ser Ala Ala Ala Val Asn Gly Leu Leu
 115 120 125
 His Asn Gly Phe His Pro Pro Pro Val Gln Pro Pro His Val Cys Ser
 130 135 140
 Arg Gly Pro Val Gly Gly Ser Asp Ala Ala Pro Gln Arg Leu Pro Leu
 145 150 155 160
 Leu Pro Glu Leu Gln Pro Gln Pro Leu Leu Pro Gln His Asp Ser Pro
 165 170 175
 Ala Lys Lys Cys Arg Leu Arg Arg Arg Met Asp Ser Gly Arg Lys Asn
 180 185 190
 Arg Pro Pro Phe Pro Trp Phe Gly Met Asp Ile Gly Gly Thr Leu Val
 195 200 205
 Lys Leu Val Tyr Phe Glu Pro Lys Asp Ile Thr Ala Glu Glu Gln
 210 215 220
 Glu Glu Val Glu Asn Leu Lys Ser Ile Arg Lys Tyr Leu Thr Ser Asn
 225 230 235 240
 Thr Ala Tyr Gly Lys Thr Gly Ile Arg Asp Val His Leu Glu Leu Lys
 245 250 255
 Asn Leu Thr Met Cys Gly Arg Lys Gly Asn Leu His Phe Ile Arg Phe
 260 265 270
 Pro Ser Cys Ala Met His Arg Phe Ile Gln Met Gly Ser Glu Lys Asn
 275 280 285
 Phe Ser Ser Leu His Thr Thr Leu Cys Ala Thr Gly Gly Ala Phe
 290 295 300
 Lys Phe Glu Glu Asp Phe Arg Met Ile Ala Asp Leu Gln Leu His Lys
 305 310 315 320
 Leu Asp Glu Leu Asp Cys Leu Ile Gln Gly Leu Leu Tyr Val Asp Ser
 325 330 335
 Val Gly Phe Asn Gly Lys Pro Glu Cys Tyr Tyr Phe Glu Asn Pro Thr
 340 345 350
 Asn Pro Glu Leu Cys Gln Lys Lys Pro Tyr Cys Leu Asp Asn Pro Tyr
 355 360 365
 Pro Met Leu Leu Val Asn Met Gly Ser Gly Val Ser Ile Leu Ala Val
 370 375 380
 Tyr Ser Lys Asp Asn Tyr Lys Arg Val Thr Gly Thr Ser Leu Gly Gly
 385 390 395 400
 Gly Thr Phe Leu Gly Leu Cys Cys Leu Leu Thr Gly Cys Glu Thr Phe
 405 410 415
 Glu Glu Ala Leu Glu Met Ala Ala Lys Gly Asp Ser Thr Asn Val Asp
 420 425 430
 Lys Leu Val Lys Asp Ile Tyr Gly Gly Asp Tyr Glu Arg Phe Gly Leu
 435 440 445
 Gln Gly Ser Ala Val Ala Ser Ser Phe Gly Asn Met Met Ser Lys Glu
 450 455 460
 Lys Arg Asp Ser Ile Ser Lys Glu Asp Leu Ala Arg Ala Thr Leu Val
 465 470 475 480
 Thr Ile Thr Asn Asn Ile Gly Ser Ile Ala Arg Met Cys Ala Leu Asn
 485 490 495
 Glu Asn Ile Asp Arg Val Val Phe Val Gly Asn Phe Leu Arg Ile Asn
 500 505 510
 Met Val Ser Met Lys Leu Leu Ala Tyr Ala Met Asp Phe Trp Ser Lys
 515 520 525
 Gly Gln Leu Lys Ala Leu Phe Leu Glu His Glu Gly Tyr Phe Gly Ala
 530 535 540
 Val Gly Ala Leu Leu Glu Leu Phe Lys Met Thr Asp
 545 550 555

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<210> 9
 <211> 993
 <212> PRT
 <213> Homo sapiens

<400> 9
 Met Arg Pro Val Ala Leu Leu Leu Leu Pro Ser Leu Leu Ala Leu Leu
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 Ala His Gly Leu Ser Leu Glu Ala Pro Thr Val Gly Lys Gly Gln Ala
 20 25 30
 Pro Gly Ile Glu Glu Thr Asp Gly Glu Leu Thr Ala Ala Pro Thr Pro
 35 40 45
 Glu Gln Pro Glu Arg Gly Val His Phe Val Thr Thr Ala Pro Thr Leu
 50 55 60
 Lys Leu Leu Asn His His Pro Leu Leu Glu Glu Phe Leu His Glu Gly
 65 70 75 80
 Leu Glu Lys Gly Asp Glu Glu Leu Arg Pro Ala Leu Ser Phe Gln Pro
 85 90 95
 Asp Pro Pro Ala Pro Phe Thr Pro Ser Ala Leu Pro Arg Leu Ala Asn
 100 105 110
 Gln Asp Ser Arg Pro Val Phe Thr Ser Pro Thr Pro Ala Met Gly Ala
 115 120 125
 Val Pro Thr Gln Pro Gln Ser Lys Glu Gly Pro Trp Ser Pro Glu Ser
 130 135 140
 Glu Ser Pro Met Leu Arg Ile Thr Ala Pro Leu Pro Pro Gly Pro Ser
 145 150 155 160
 Met Ala Val Pro Thr Leu Gly Pro Gly Glu Ile Ala Ser Thr Thr Pro
 165 170 175
 Pro Ser Arg Ala Trp Thr Pro Thr Gln Glu Gly Pro Gly Asp Met Gly
 180 185 190
 Arg Pro Trp Val Ala Glu Val Val Ser Gln Gly Ala Gly Ile Gly Ile
 195 200 205
 Gln Gly Thr Ile Thr Ser Ser Thr Ala Ser Gly Asp Asp Glu Glu Thr
 210 215 220
 Thr Thr Thr Thr Ile Ile Thr Thr Thr Ile Thr Thr Val Gln Thr
 225 230 235 240
 Pro Gly Pro Cys Ser Trp Asn Phe Ser Gly Pro Glu Gly Ser Leu Asp
 245 250 255
 Ser Pro Thr Asp Leu Ser Ser Pro Thr Asp Val Gly Leu Asp Cys Phe
 260 265 270
 Phe Tyr Ile Ser Val Tyr Pro Gly Tyr Gly Val Glu Ile Lys Val Gln
 275 280 285
 Asn Ile Ser Leu Arg Glu Gly Glu Thr Val Thr Val Glu Gly Leu Gly
 290 295 300
 Gly Pro Asp Pro Leu Pro Leu Ala Asn Gln Ser Phe Leu Leu Arg Gly
 305 310 315 320
 Gln Val Ile Arg Ser Pro Thr His Gln Ala Ala Leu Arg Phe Gln Ser
 325 330 335
 Leu Pro Pro Ala Gly Pro Gly Thr Phe His Phe His Tyr Gln Ala
 340 345 350
 Tyr Leu Leu Ser Cys His Phe Pro Arg Arg Pro Ala Tyr Gly Asp Val
 355 360 365
 Thr Val Thr Ser Leu His Pro Gly Gly Ser Ala Arg Phe His Cys Ala
 370 375 380
 Thr Gly Tyr Gln Leu Lys Gly Ala Arg His Leu Thr Cys Leu Asn Ala
 385 390 395 400
 Thr Gln Pro Phe Trp Asp Ser Lys Glu Pro Val Cys Ile Ala Ala Cys
 405 410 415
 Gly Gly Val Ile Arg Asn Ala Thr Thr Gly Arg Ile Val Ser Pro Gly
 420 425 430
 Phe Pro Gly Asn Tyr Ser Asn Asn Leu Thr Cys His Trp Leu Leu Glu
 435 440 445
 Ala Pro Glu Gly Gln Arg Leu His Leu His Phe Glu Lys Val Ser Leu

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450	455	460													
Ala	Glu	Asp	Asp	Asp	Arg	Leu	Ile	Ile	Arg	Asn	Gly	Asp	Asn	Val	Glu
465	470	475	480												
Ala	Pro	Pro	Val	Tyr	Asp	Ser	Tyr	Glu	Val	Glu	Tyr	Leu	Pro	Ile	Glu
485	490	495													
Gly	Leu	Leu	Ser	Ser	Gly	Lys	His	Phe	Phe	Val	Glu	Leu	Ser	Thr	Asp
500	505	510													
Ser	Ser	Gly	Ala	Ala	Ala	Gly	Met	Ala	Leu	Arg	Tyr	Glu	Ala	Phe	Gln
515	520	525													
Gln	Gly	His	Cys	Tyr	Glu	Pro	Phe	Val	Lys	Tyr	Gly	Asn	Phe	Ser	Ser
530	535	540													
Ser	Thr	Pro	Thr	Tyr	Pro	Val	Gly	Thr	Thr	Val	Glu	Phe	Ser	Cys	Asp
545	550	555	560												
Pro	Gly	Tyr	Thr	Leu	Glu	Gln	Gly	Ser	Ile	Ile	Ile	Glu	Cys	Val	Asp
565	570	575													
Pro	His	Asp	Pro	Gln	Trp	Asn	Glu	Thr	Glu	Pro	Ala	Cys	Arg	Ala	Val
580	585	590													
Cys	Ser	Gly	Glu	Ile	Thr	Asp	Ser	Ala	Gly	Val	Val	Leu	Pro	Thr	Glu
595	600	605													
Pro	Glu	Pro	Tyr	Gly	Arg	Gly	Gln	Asp	Ser	Ile	Trp	Gly	Val	His	Val
610	615	620													
Glu	Glu	Asp	Lys	Arg	Ile	Met	Leu	Asp	Ile	Arg	Val	Leu	Arg	Ile	Gly
625	630	635	640												
Pro	Gly	Asp	Val	Leu	Thr	Phe	Tyr	Asp	Gly	Asp	Asp	Leu	Thr	Ala	Arg
645	650	655													
Val	Leu	Gly	Gln	Tyr	Ser	Gly	Pro	Arg	Ser	His	Phe	Lys	Leu	Phe	Thr
660	665	670													
Ser	Met	Ala	Asp	Val	Thr	Ile	Gln	Phe	Gln	Ser	Asp	Pro	Gly	Thr	Ser
675	680	685													
Val	Leu	Gly	Tyr	Gln	Gln	Gly	Phe	Val	Ile	His	Phe	Phe	Glu	Val	Pro
690	695	700													
Arg	Asn	Asp	Thr	Cys	Pro	Glu	Leu	Pro	Glu	Ile	Pro	Asn	Gly	Trp	Lys
705	710	715	720												
Ser	Pro	Ser	Gln	Pro	Glu	Leu	Val	His	Gly	Thr	Val	Val	Thr	Tyr	Gln
725	730	735													
Cys	Tyr	Pro	Gly	Tyr	Gln	Val	Val	Gly	Ser	Ser	Val	Leu	Met	Cys	Gln
740	745	750													
Trp	Asp	Leu	Thr	Trp	Ser	Glu	Asp	Leu	Pro	Ser	Cys	Gln	Arg	Val	Thr
755	760	765													
Ser	Cys	His	Asp	Pro	Gly	Asp	Val	Glu	His	Ser	Arg	Arg	Leu	Ile	Ser
770	775	780													
Ser	Pro	Lys	Pro	Val	Gly	Ala	Thr	Val	Gln	Tyr	Ile	Cys	Asp	Gln	
785	790	795	800												
Gly	Phe	Val	Leu	Met	Gly	Ser	Ser	Ile	Leu	Thr	Cys	His	Asp	Arg	Gln
805	810	815													
Ala	Gly	Ser	Pro	Lys	Trp	Ser	Asp	Arg	Ala	Pro	Lys	Cys	Leu	Leu	Glu
820	825	830													
Gln	Leu	Lys	Pro	Cys	His	Gly	Leu	Ser	Ala	Pro	Glu	Asn	Gly	Ala	Arg
835	840	845													
Ser	Pro	Glu	Lys	Gln	Leu	His	Pro	Ala	Gly	Ala	Thr	Ile	His	Phe	Ser
850	855	860													
Cys	Ala	Pro	Gly	Tyr	Val	Leu	Lys	Gly	Gln	Ala	Ser	Ile	Lys	Cys	Val
865	870	875	880												
Pro	Gly	His	Pro	Ser	His	Trp	Ser	Asp	Pro	Pro	Pro	Ile	Cys	Arg	Ala
885	890	895													
Ala	Ser	Leu	Asp	Gly	Phe	Tyr	Asn	Ser	Arg	Ser	Leu	Asp	Val	Ala	Lys
900	905	910													
Ala	Pro	Ala	Ala	Ser	Ser	Thr	Leu	Asp	Ala	Ala	His	Ile	Ala	Ala	Ala
915	920	925													
Ile	Phe	Leu	Pro	Leu	Val	Ala	Met	Val	Leu	Leu	Val	Gly	Gly	Val	Tyr
930	935	940													
Phe	Tyr	Phe	Ser	Arg	Leu	Gln	Gly	Lys	Ser	Ser	Leu	Gln	Leu	Pro	Arg
945	950	955	960												

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Pro Arg Pro Arg Pro Tyr Asn Arg Ile Thr Ile Glu Ser Ala Phe Asp
 965 970 975
 Asn Pro Thr Tyr Glu Thr Gly Ser Leu Ser Phe Ala Gly Asp Glu Arg
 980 985 990
 Ile

<210> 10
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 10
 Glu Lys Ala Leu Ala Leu Thr Gly Asn Gln Gly Ile Glu Ala Ala Met
 1 5 10 15
 Asp Trp Leu Met Glu His Glu Asp Asp Pro Asp Val Asp Glu Pro Leu
 20 25 30
 Glu Thr Pro Leu Val Thr Tyr Pro Gly Glu Pro Thr Ser Ser Glu Gln
 35 40 45
 Gly Gly Leu Glu Gly Ser Gly Ser Ala Ala Gly Glu Gly Lys Pro Ala
 50 55 60
 Leu Ser Glu Glu Glu Arg Gln Glu Gln Thr Lys Arg Met Leu Glu Leu
 65 70 75 80
 Val Ala Gln Lys Gln Arg Glu Arg Glu Glu Arg Glu Arg Glu Ala
 85 90 95
 Leu Glu Arg Glu Arg Gln Arg Arg Arg Gln Gly Gln Glu Leu Ser Ala
 100 105 110
 Ala Arg Gln Arg Leu Gln Glu Asp Glu Met Arg Arg Ala Ala Glu Glu
 115 120 125
 Arg Arg Arg Glu Lys Ala Glu Glu Leu Ala Ala Arg Gln Arg Val Arg
 130 135 140
 Glu Lys Ile Glu Arg Asp Lys Ala Glu Arg Ala Lys Lys Tyr Gly Gly
 145 150 155 160
 Ser Val Gly Ser Gln Pro Pro Pro Val Ala Pro Glu Pro Gly Pro Val
 165 170 175
 Pro Ser Ser Pro Ser Gln Glu Pro Pro Pro Lys Arg Glu Tyr Asp Gln
 180 185 190
 Cys Arg Ile Gln Val Arg Leu Pro Asp Gly Thr Ser Leu Thr Gln Thr
 195 200 205
 Phe Arg Ala Arg Glu Gln Leu Ala Ala Val Arg Leu Tyr Val Glu Leu
 210 215 220
 His Arg Gly Glu Glu Leu Gly Gly Gln Asp Pro Val Gln Leu Leu
 225 230 235 240
 Ser Gly Phe Pro Arg Arg Ala Phe Ser Glu Ala Asp Met Glu Arg Pro
 245 250 255
 Leu Gln Glu Leu Gly Leu Val Pro Ser Ala Val Leu Ile Val Ala Lys
 260 265 270
 Lys Cys Pro Ser
 275

<210> 11
 <211> 241
 <212> PRT
 <213> Homo sapiens

<400> 11
 Ser Leu His Leu Ser Glu Arg Ala Asp Trp Gln Tyr Ser Gln Arg Glu
 1 5 10 15
 Leu Asp Ala Val Glu Val Phe Phe Ser Arg Thr Ala Arg Asp Asn Arg
 20 25 30
 Leu Gly Cys Met Phe Val Arg Cys Ala Pro Ser Ser Arg Tyr Thr Leu
 35 40 45
 Leu Phe Ser His Gly Asn Ala Val Asp Leu Gly Gln Met Cys Ser Phe

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50	55	60
Tyr Ile Gly Leu Gly Ser Arg Ile Asn Cys Asn Ile Phe Ser Tyr Asp		
65	70	75
Tyr Ser Gly Tyr Gly Val Ser Ser Gly Lys Pro Ser Glu Lys Asn Leu		
85	90	95
Tyr Ala Asp Ile Asp Ala Ala Trp Gln Ala Leu Arg Thr Arg Tyr Gly		
100	105	110
val Ser Pro Glu Asn Ile Ile Leu Tyr Gly Gln Ser Ile Gly Thr Val		
115	120	125
Pro Thr Val Asp Leu Ala Ser Arg Tyr Glu Cys Ala Ala Val Ile Leu		
130	135	140
His Ser Pro Leu Met Ser Gly Leu Arg Val Ala Phe Pro Asp Thr Arg		
145	150	155
Lys Thr Tyr Cys Phe Asp Ala Phe Pro Ser Ile Asp Lys Ile Ser Lys		
165	170	175
Val Thr Ser Pro Val Leu Val Ile His Gly Thr Glu Asp Glu Val Ile		
180	185	190
Asp Phe Ser His Gly Leu Ala Met Tyr Glu Arg Cys Pro Arg Ala Val		
195	200	205
Glu Pro Leu Trp Val Glu Gly Ala Gly His Asn Asp Ile Glu Leu Tyr		
210	215	220
Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe Ile His Glu Leu Pro Asn		
225	230	235
Ser		

<210> 12
<211> 420
<212> PRT
<213> Homo sapiens

<400> 12			
Met Thr Met Glu Lys Gly Met Ser Ser Gly Glu Gly Leu Pro Ser Arg			
1	5	10	15
Ser Ser Gln Val Ser Ala Gly Lys Ile Thr Ala Lys Glu Leu Glu Thr			
20	25	30	
Lys Gln Ser Tyr Lys Glu Lys Arg Gly Gly Phe Val Leu Val His Ala			
35	40	45	
Gly Ala Gly Tyr His Ser Glu Ser Lys Ala Lys Glu Tyr Lys His Val			
50	55	60	
Cys Lys Arg Ala Cys Gln Lys Ala Ile Glu Lys Leu Gln Ala Gly Ala			
65	70	75	80
Leu Ala Thr Asp Ala Val Thr Ala Ala Leu Val Glu Leu Glu Asp Ser			
85	90	95	
Pro Phe Thr Asn Ala Gly Met Gly Ser Asn Leu Asn Leu Leu Gly Glu			
100	105	110	
Ile Glu Cys Asp Ala Ser Ile Met Asp Gly Lys Ser Leu Asn Phe Gly			
115	120	125	
Ala Val Gly Ala Leu Ser Gly Ile Lys Asn Pro Val Ser Val Ala Asn			
130	135	140	
Arg Leu Leu Cys Glu Gly Gln Lys Gly Lys Leu Ser Ala Gly Arg Ile			
145	150	155	160
Pro Pro Cys Phe Leu Val Gly Glu Gly Ala Tyr Arg Trp Ala Val Asp			
165	170	175	
His Gly Ile Pro Ser Cys Pro Pro Asn Ile Met Thr Thr Arg Phe Ser			
180	185	190	
Leu Ala Ala Phe Lys Arg Asn Lys Arg Lys Leu Glu Leu Ala Glu Arg			
195	200	205	
Val Asp Thr Asp Phe Met Gln Leu Lys Lys Arg Arg Gln Ser Ser Glu			
210	215	220	
Lys Glu Asn Asp Ser Gly Thr Leu Asp Thr Val Gly Ala Val Val Val			
225	230	235	240
Asp His Glu Gly Asn Val Ala Ala Val Ser Ser Gly Gly Leu Ala			

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	245	250	255
Leu Lys His Pro	Gly Arg Val	Gly Gln Ala Ala	Leu Tyr Gly Cys Gly
260	265	270	
Cys Trp Ala Glu Asn Thr	Gly Ala His Asn Pro	Tyr Ser Thr Ala Val	
275	280	285	
Ser Thr Ser Gly Cys Gly	Glu His Leu Val	Arg Thr Ile Leu Ala Arg	
290	295	300	
Glu Cys Ser His Ala	Leu Gln Ala Glu Asp	Ala His Gln Ala Leu	Leu
305	310	315	320
Glu Thr Met Gln Asn Lys	Phe Ile Ser Ser	Pro Phe Leu Ala Ser	Glu
325	330	335	
Asp Gly Val Leu Gly	Gly Val Ile Val	Leu Arg Ser Cys Arg	Cys Ser
340	345	350	
Ala Glu Pro Asp Ser Ser	Gln Asn Lys Gln	Thr Leu Leu Val	Glu Phe
355	360	365	
Leu Trp Ser His Thr Thr	Glu Ser Met Cys Val	Gly Tyr Met Ser Ala	
370	375	380	
Gln Asp Gly Lys Ala	Lys Thr His Ile Ser	Arg Leu Pro Pro Gly	Ala
385	390	395	400
Val Ala Gly Gln Ser Val	Ala Ile Glu Gly	Val Cys Arg Leu Glu	
405	410	415	
Ser Pro Val Asn			
420			

<210> 13

<211> 381

<212> PRT

<213> Homo sapiens

<400> 13

Lys Ile Lys Asp Cys	Tyr Gly Leu Gly	Ser Gly Gln Asn His	Phe Ile
1	5	10	15
Lys Asp Ser Gln Trp	Glu Gln Ala	Glu Ile Phe Asn Ala	Ser Tyr
20	25	30	
Lys Lys Tyr Leu Asp Arg	Glu Trp Glu Glu	Pro Leu Ser Thr Ala	
35	40	45	
Thr Phe Tyr Phe Leu Leu	Pro Ser Cys Leu Phe	Ala Met Pro Pro Glu	
50	55	60	
Val Lys Gly Pro Ser	Gly Met Ala Cys Val	Leu Gly Ile His Trp Thr	
65	70	75	80
Arg Ser His Asn Phe	Phe Leu Tyr Ser	Leu Asn Arg Thr Leu	Lys Asp
85	90	95	
Lys Ala Asp Pro Glu	Gly Val Trp Pro	Cys Ala Ala Pro Ile Ala Val	
100	105	110	
Ser Gln Leu Ser Cys Ser	Ser Ser Tyr Leu Val	Leu Ala Cys Glu Asp	
115	120	125	
Gly Val Leu Thr Leu	Trp Asp Leu Ala Lys	Gly Phe Pro Leu Gly Val	
130	135	140	
Ala Ala Leu Pro Gln	Gly Cys Phe Cys Gln	Ser Ile His Phe Leu	Lys
145	150	155	160
Tyr Phe Ser Val His	Lys Gly Gln Asn Met	Tyr Pro Glu Gly Gln Val	
165	170	175	
Lys Ser Gln Met Lys	Cys Val Val Leu Cys Thr	Asp Ala Ser Leu His	
180	185	190	
Leu Val Glu Ala Ser	Gly Thr Gln Gly	Pro Thr Ile Ser Val	Leu Val
195	200	205	
Glu Arg Pro Val Lys His	Leu Asp Lys Thr	Ile Cys Ala Val Ala Pro	
210	215	220	
Val Pro Ala Leu Pro	Gly Met Val Leu Ile	Phe Ser Lys Asn Gly Ser	
225	230	235	240
Val Cys Leu Met Asp	Val Ala Lys Arg	Glu Ile Ile Cys Ala Phe	Ala
245	250	255	
Pro Pro Gly Ala Phe	Pro Leu Glu Val	Pro Trp Lys Pro Val Phe	Ala

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260	265	270	
Val Ser Pro Asp His Pro Cys Phe	Leu Leu Arg Gly Asp	Tyr Ser His	
275	280	285	
Glu Thr Ala Ser Thr Asp Asp Ala Gly Ile Gln	Tyr Ser Val Phe Tyr		
290	295	300	
Phe Asn Phe Glu Ala Cys Pro Leu Leu Glu Asn Ile Ser Lys Asn Cys			
305	310	315	320
Thr Ile Pro Gln Arg Asp Leu Asp Asn Met Ala Phe Pro Gln Ala Leu			
325	330	335	
Pro Leu Glu Lys Arg Cys Glu Arg Phe Leu Gln Lys Ser Tyr Arg Lys			
340	345	350	
Leu Glu Lys Asn Pro Glu Lys Glu Glu His Trp Ala Arg Leu Gln			
355	360	365	
Arg Tyr Ser Leu Ser Leu Gln Arg Glu Asn Phe Lys Lys			
370	375	380	

<210> 14

<211> 108

<212> PRT

<213> Homo sapiens

<400> 14

Met Gly Lys Gly Tyr Tyr Leu Lys Gly Lys Ile Gly Lys Val Pro Val			
1	5	10	15
Arg Phe Leu Val Asp Ser Gly Ala Gln Val Ser Val Val His Pro Asn			
20	25	30	
Leu Trp Glu Glu Val Thr Asp Gly Asp Leu Asp Thr Leu Gln Pro Phe			
35	40	45	
Glu Asn Val Val Lys Val Ala Asn Gly Ala Glu Met Lys Ile Leu Gly			
50	55	60	
Val Trp Asp Thr Ala Val Ser Leu Gly Lys Leu Lys Leu Lys Ala Gln			
65	70	75	80
Phe Leu Val Ala Asn Ala Ser Ala Glu Glu Ala Ile Ile Gly Thr Asp			
85	90	95	
Leu Gln Asp His Asn Ala Ile Leu Asp Phe Glu His			
100	105		

<210> 15

<211> 522

<212> PRT

<213> Homo sapiens

<400> 15

Met Ser Phe Ile Cys Gly Leu Gln Ser Ala Ala Arg Asn His Val Phe			
1	5	10	15
Phe Arg Phe Asn Ser Leu Ser Asn Trp Arg Lys Cys Asn Thr Leu Ala			
20	25	30	
Ser Thr Ser Arg Gly Cys His Gln Val Gln Val Asn His Ile Val Asn			
35	40	45	
Lys Tyr Gln Gly Leu Gly Val Asn Gln Cys Asp Arg Trp Ser Phe Leu			
50	55	60	
Pro Gly Asn Phe His Phe Tyr Ser Thr Phe Asn Asn Lys Arg Thr Gly			
65	70	75	80
Gly Leu Ser Ser Thr Lys Ser Lys Glu Ile Trp Arg Ile Thr Ser Lys			
85	90	95	
Cys Thr Val Trp Asn Asp Ala Phe Ser Arg Gln Leu Leu Ile Lys Glu			
100	105	110	
Val Thr Ala Val Pro Ser Leu Ser Val Leu His Pro Leu Ser Pro Ala			
115	120	125	
Ser Ile Arg Ala Ile Arg Asn Phe His Thr Ser Pro Arg Phe Gln Ala			
130	135	140	
Ala Pro Val Pro Leu Leu Leu Met Ile Leu Lys Pro Val Gln Lys Leu			
145	150	155	160

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Phe Ala Ile Ile Val Gly Arg Gly Ile Arg Lys Trp Trp Gln Ala Leu
 165 170 175
 Pro Pro Asn Lys Lys Glu Val Val Lys Glu Asn Ile Arg Lys Asn Lys
 180 185 190
 Trp Lys Leu Phe Leu Gly Leu Ser Ser Phe Gly Leu Leu Phe Val Val
 195 200 205
 Phe Tyr Phe Thr His Leu Glu Val Ser Pro Ile Thr Gly Arg Ser Lys
 210 215 220
 Leu Leu Leu Leu Gly Lys Glu Gln Phe Arg Leu Leu Ser Glu Leu Glu
 225 230 235 240
 Tyr Glu Ala Trp Met Glu Glu Phe Lys Asn Asp Met Leu Thr Glu Lys
 245 250 255
 Asp Ala Arg Tyr Leu Ala Val Lys Glu Val Leu Cys His Leu Ile Glu
 260 265 270
 Cys Asn Lys Asp Val Pro Gly Ile Ser Gln Ile Asn Trp Val Ile His
 275 280 285
 Val Val Asp Ser Pro Ile Ile Asn Ala Phe Val Leu Pro Asn Gly Gln
 290 295 300
 Met Phe Val Phe Thr Gly Phe Leu Asn Ser Val Thr Asp Ile His Gln
 305 310 315 320
 Leu Ser Phe Leu Leu Gly His Glu Ile Ala His Ala Val Leu Gly His
 325 330 335
 Ala Ala Glu Lys Ala Gly Met Val His Leu Leu Asp Phe Leu Gly Met
 340 345 350
 Ile Phe Leu Thr Met Ile Trp Ala Ile Cys Pro Arg Asp Ser Leu Ala
 355 360 365
 Leu Leu Cys Gln Trp Ile Gln Ser Lys Leu Gln Glu Tyr Met Phe Asn
 370 375 380
 Arg Pro Tyr Ser Arg Lys Leu Glu Ala Glu Ala Asp Lys Ile Gly Leu
 385 390 395 400
 Leu Leu Ala Ala Lys Ala Cys Ala Asp Ile Arg Ala Ser Ser Val Phe
 405 410 415
 Trp Gln Gln Met Glu Phe Val Asp Ser Leu His Gly Gln Pro Lys Met
 420 425 430
 Pro Glu Trp Leu Ser Thr His Pro Ser His Gly Asn Arg Val Glu Tyr
 435 440 445
 Leu Asp Arg Leu Ile Pro Gln Ala Leu Lys Ile Arg Glu Met Cys Asn
 450 455 460
 Cys Pro Pro Leu Ser Asn Pro Asp Pro Arg Leu Leu Phe Lys Leu Ser
 465 470 475 480
 Thr Lys His Phe Leu Glu Glu Ser Glu Lys Glu Asp Leu Asn Ile Thr
 485 490 495
 Lys Lys Gln Lys Met Asp Thr Leu Pro Ile Gln Lys Gln Glu Gln Ile
 500 505 510
 Pro Leu Thr Tyr Ile Val Glu Lys Arg Thr
 515 520

<210> 16

<211> 285

<212> PRT

<213> Homo sapiens

<400> 16

Met Asn Asn Leu Ser Phe Ser Glu Leu Cys Cys Leu Phe Cys Cys Pro
 1 5 10 15
 Pro Cys Pro Gly Lys Ile Ala Ser Lys Leu Ala Phe Leu Pro Pro Asp
 20 25 30
 Pro Thr Tyr Thr Leu Met Cys Asp Glu Ser Gly Ser Arg Trp Thr Leu
 35 40 45
 His Leu Ser Glu Arg Ala Asp Trp Gln Tyr Ser Ser Arg Glu Lys Asp
 50 55 60
 Ala Ile Glu Cys Phe Met Thr Arg Thr Ser Lys Gly Asn Arg Ile Ala
 65 70 75 80

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Cys Met Phe Val Arg Cys Ser Pro Asn Ala Lys Tyr Thr Leu Leu Phe
 85 90 95
 Ser His Gly Asn Ala Val Asp Leu Gly Gln Met Ser Ser Phe Tyr Ile
 100 105 110
 Gly Leu Gly Ser Arg Ile Asn Cys Asn Ile Phe Ser Tyr Asp Tyr Ser
 115 120 125
 Gly Tyr Gly Ala Ser Ser Gly Lys Pro Thr Glu Lys Asn Leu Tyr Ala
 130 135 140
 Asp Ile Glu Ala Ala Trp Leu Ala Leu Arg Thr Arg Tyr Ile Arg Pro
 145 150 155 160
 Glu Asn Val Ile Ile Tyr Gly Gln Ser Ile Gly Thr Val Pro Ser Val
 165 170 175
 Asp Leu Ala Ala Arg Tyr Glu Ser Ala Ala Val Ile Leu His Ser Pro
 180 185 190
 Leu Thr Ser Gly Met Arg Val Ala Phe Pro Asp Thr Lys Lys Thr Tyr
 195 200 205
 Cys Phe Asp Ala Phe Pro Asn Ile Asp Lys Ile Ser Lys Ile Thr Ser
 210 215 220
 Pro Val Leu Ile Ile His Gly Thr Glu Asp Glu Val Ile Asp Phe Ser
 225 230 235 240
 His Gly Leu Ala Leu Phe Glu Arg Cys Gln Arg Pro Val Glu Pro Leu
 245 250 255
 Trp Val Glu Gly Ala Gly His Asn Asp Val Glu Leu Tyr Gly Gln Tyr
 260 265 270
 Leu Glu Arg Leu Lys Gln Phe Val Ser Gln Glu Leu Val
 275 280 285

<210> 17
 <211> 1513
 <212> PRT
 <213> Homo sapiens

<400> 17
 Gly Ser Gly Cys Leu Gly Ala Glu Lys Arg Glu Gly Lys Asn Arg Trp
 1 5 10 15
 Gln Gly Glu Ala Ser Met Glu Arg Leu Leu Ala Gln Leu Cys Gly Ser
 20 25 30
 Ser Ala Ala Trp Pro Leu Pro Leu Trp Glu Gly Asp Thr Thr Gly His
 35 40 45
 Cys Phe Thr Gln Leu Val Leu Ser Ala Leu Pro His Ala Leu Leu Ala
 50 55 60
 Val Leu Ser Ala Cys Tyr Leu Gly Thr Pro Arg Ser Pro Asp Tyr Ile
 65 70 75 80
 Leu Pro Cys Ser Pro Gly Trp Arg Leu Arg Leu Ala Ala Ser Phe Leu
 85 90 95
 Leu Ser Val Phe Pro Leu Leu Asp Leu Leu Pro Val Ala Leu Pro Pro
 100 105 110
 Gly Ala Gly Pro Gly Pro Ile Gly Leu Glu Val Leu Ala Gly Cys Val
 115 120 125
 Ala Ala Val Ala Trp Ile Ser His Ser Leu Ala Leu Trp Val Leu Ala
 130 135 140
 His Ser Pro His Gly His Ser Arg Gly Pro Leu Ala Leu Ala Leu Val
 145 150 155 160
 Ala Leu Leu Pro Ala Pro Ala Leu Val Leu Thr Val Leu Trp His Cys
 165 170 175
 Gln Arg Gly Thr Leu Leu Pro Pro Leu Leu Pro Gly Pro Met Ala Arg
 180 185 190
 Leu Cys Leu Leu Ile Leu Gln Leu Ala Ala Leu Leu Ala Tyr Ala Leu
 195 200 205
 Gly Trp Ala Ala Pro Gly Gly Pro Arg Glu Pro Trp Ala Gln Glu Pro
 210 215 220
 Leu Leu Pro Glu Asp Gln Glu Pro Glu Val Ala Glu Asp Gly Glu Ser
 225 230 235 240

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Trp Leu Ser Arg Phe Ser Tyr Ala Trp Leu Ala Pro Leu Leu Ala Arg
 245 250 255
 Gly Ala Cys Gly Glu Leu Arg Gln Pro Gln Asp Ile Cys Arg Leu Pro
 260 265 270
 His Arg Leu Gln Pro Thr Tyr Leu Ala Arg Val Phe Gln Ala His Trp
 275 280 285
 Gln Glu Gly Ala Arg Leu Trp Arg Ala Leu Tyr Gly Ala Phe Gly Arg
 290 295 300
 Cys Tyr Leu Ala Leu Gly Leu Leu Lys Leu Val Gly Thr Met Leu Gly
 305 310 315 320
 Phe Ser Gly Pro Leu Leu Leu Ser Leu Leu Val Gly Phe Leu Glu Glu
 325 330 335
 Gly Gln Glu Pro Leu Ser His Gly Leu Leu Tyr Ala Leu Gly Leu Ala
 340 345 350
 Gly Gly Ala Val Leu Gly Ala Val Leu Gln Asn Gln Tyr Gly Tyr Glu
 355 360 365
 Val Tyr Lys Val Thr Leu Gln Ala Arg Gly Ala Val Leu Asn Ile Leu
 370 375 380
 Tyr Cys Lys Ala Leu Gln Leu Gly Pro Ser Arg Pro Pro Thr Gly Glu
 385 390 395 400
 Ala Leu Asn Leu Leu Gly Thr Asp Ser Glu Arg Leu Leu Asn Phe Ala
 405 410 415
 Gly Ser Phe His Glu Ala Trp Gly Leu Pro Leu Gln Leu Ala Ile Thr
 420 425 430
 Leu Tyr Leu Leu Tyr Gln Gln Val Gly Val Ala Phe Val Gly Gly Leu
 435 440 445
 Ile Leu Ala Leu Leu Leu Val Pro Val Asn Lys Val Ile Ala Thr Arg
 450 455 460
 Ile Met Ala Ser Asn Gln Glu Met Leu Gln His Lys Asp Ala Arg Val
 465 470 475 480
 Lys Leu Val Thr Glu Leu Leu Ser Gly Ile Arg Val Ile Lys Phe Cys
 485 490 495
 Gly Trp Glu Gln Ala Leu Gly Ala Arg Val Glu Ala Cys Arg Ala Arg
 500 505 510
 Glu Leu Gly Arg Leu Arg Val Ile Lys Tyr Leu Asp Ala Ala Cys Val
 515 520 525
 Tyr Leu Trp Ala Ala Leu Pro Val Val Ile Ser Ile Val Ile Phe Ile
 530 535 540
 Thr Tyr Val Leu Met Gly His Gln Leu Thr Ala Thr Lys Val Phe Thr
 545 550 555 560
 Ala Leu Ala Leu Val Arg Met Leu Ile Leu Pro Leu Asn Asn Phe Pro
 565 570 575
 Trp Val Ile Asn Gly Leu Leu Glu Ala Lys Val Ser Leu Asp Arg Ile
 580 585 590
 Gln Leu Phe Leu Asp Leu Pro Asn His Asn Pro Gln Ala Tyr Tyr Ser
 595 600 605
 Pro Asp Pro Pro Ala Glu Pro Ser Thr Val Leu Glu Leu His Gly Ala
 610 615 620
 Leu Phe Ser Trp Asp Pro Val Gly Thr Ser Leu Glu Thr Phe Ile Ser
 625 630 635 640
 His Leu Glu Val Lys Lys Gly Met Leu Val Gly Ile Val Gly Lys Val
 645 650 655
 Gly Cys Gly Lys Ser Ser Leu Leu Ala Ala Ile Ala Gly Glu Leu His
 660 665 670
 Arg Leu Arg Gly His Val Ala Val Arg Gly Leu Ser Lys Gly Phe Gly
 675 680 685
 Leu Ala Thr Gln Glu Pro Trp Ile Gln Phe Ala Thr Ile Arg Asp Asn
 690 695 700
 Ile Leu Phe Gly Lys Thr Phe Asp Ala Gln Leu Tyr Lys Glu Val Leu
 705 710 715 720
 Glu Ala Cys Ala Leu Asn Asp Asp Leu Ser Ile Leu Pro Ala Gly Asp
 725 730 735
 Gln Thr Glu Val Gly Glu Lys Gly Val Thr Leu Ser Gly Gly Gln Arg

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740	745	750
Ala Arg Ile Ala Leu Ala Arg Ala Val Tyr Gln Glu Lys	Glu Leu Tyr	
755	760	765
Leu Leu Asp Asp Pro Leu Ala Ala Val Asp Ala Asp Val	Ala Asn His	
770	775	780
Leu Leu His Arg Cys Ile Leu Gly Met Leu Ser Tyr Thr	Thr Arg Leu	
785	790	795
Leu Cys Thr His Arg Thr Glu Tyr Leu Glu Arg Ala Asp	Ala Val Leu	
805	810	815
Leu Met Glu Ala Gly Arg Leu Ile Arg Ala Gly Pro Pro	Ser Glu Ile	
820	825	830
Leu Pro Leu Val Gln Ala Val Pro Lys Ala Trp Ala Glu	Asn Gly Gln	
835	840	845
Glu Ser Asp Ser Ala Thr Ala Gln Ser Val Gln Asn Pro	Glu Lys Thr	
850	855	860
Lys Glu Gly Leu Glu Glu Gln Ser Thr Ser Gly Arg Leu	Leu Gln	
865	870	875
Glu Glu Ser Lys Lys Glu Gly Ala Val Ala Leu His Val	Tyr Gln Ala	
885	890	895
Tyr Trp Lys Ala Val Gly Gln Gly Leu Ala Leu Ala Ile	Leu Phe Ser	
900	905	910
Leu Leu Leu Met Gln Ala Thr Arg Asn Ala Ala Asp Trp	Trp Leu Ser	
915	920	925
His Trp Ile Ser Gln Leu Lys Ala Glu Asn Ser Ser	Gln Glu Ala Gln	
930	935	940
Pro Ser Thr Ser Pro Ala Ser Met Gly Leu Phe Ser Pro	Gln Leu Leu	
945	950	955
Leu Phe Ser Pro Gly Asn Leu Tyr Ile Pro Val Phe Pro	Leu Pro Lys	
965	970	975
Ala Ala Pro Asn Gly Ser Ser Asp Ile Arg Phe Tyr Leu	Thr Val Tyr	
980	985	990
Ala Thr Ile Ala Gly Val Asn Ser Leu Cys Thr Leu Leu	Arg Ala Val	
995	1000	1005
Leu Phe Ala Ala Gly Thr Leu Gln Ala Ala Ala Thr	Leu His Arg Arg	
1010	1015	1020
Leu Leu His Arg Val Leu Met Ala Pro Val Thr Phe Phe	Asn Ala Thr	
1025	1030	1035
Pro Thr Gly Arg Ile Leu Asn Arg Phe Ser Ser Asp Val	Ala Cys Ala	
1045	1050	1055
Asp Asp Ser Leu Pro Phe Ile Leu Asn Ile Leu Leu Ala	Asn Ala Ala	
1060	1065	1070
Gly Leu Leu Gly Leu Leu Ala Val Leu Gly Ser Gly Leu	Pro Trp Leu	
1075	1080	1085
Leu Leu Leu Pro Pro Leu Ser Ile Met Tyr Tyr His Val	Gln Arg	
1090	1095	1100
His Tyr Arg Ala Ser Ser Arg Glu Leu Arg Arg Leu	Gly Ser Leu Thr	
1105	1110	1115
Leu Ser Pro Leu Tyr Ser His Leu Ala Asp Thr Leu Ala	Gly Leu Ser	
1125	1130	1135
Val Leu Arg Ala Thr Gly Ala Thr Tyr Arg Phe Glu	Glu Asn Leu	
1140	1145	1150
Arg Leu Leu Glu Leu Asn Gln Arg Cys Gln Phe Ala	Thr Ser Ala Thr	
1155	1160	1165
Met Gln Trp Leu Asp Ile Arg Leu Gln Leu Met Gly	Ala Ala Val Val	
1170	1175	1180
Ser Ala Ile Ala Gly Ile Ala Leu Val Gln His Gln	Gly Leu Ala	
1185	1190	1195
Asn Pro Gly Leu Val Gly Leu Ser Leu Ser Tyr Ala	Leu Ser Leu Thr	
1205	1210	1215
Gly Leu Leu Ser Gly Leu Val Ser Ser Phe Thr Gln	Thr Glu Ala Met	
1220	1225	1230
Leu Val Ser Val Glu Arg Leu Glu Glu Tyr Thr Cys	Asp Leu Pro Gln	
1235	1240	1245

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Glu Pro Gln Gly Gln Pro Leu Gln Leu Gly Thr Gly Trp Leu Thr Gln
 1250 1255 1260
 Gly Gly Val Glu Phe Gln Asp Val Val Leu Ala Tyr Arg Pro Gly Leu
 1265 1270 1275 1280
 Pro Asn Ala Leu Asp Gly Val Thr Phe Cys Val Gln Pro Gly Glu Lys
 1285 1290 1295
 Leu Gly Ile Val Gly Arg Thr Gly Ser Gly Lys Ser Ser Leu Leu Leu
 1300 1305 1310
 Val Leu Phe Arg Leu Leu Glu Pro Ser Ser Gly Arg Val Leu Leu Asp
 1315 1320 1325
 Gly Val Asp Thr Ser Gln Leu Glu Leu Ala Gln Leu Arg Ser Gln Leu
 1330 1335 1340
 Ala Ile Ile Pro Gln Glu Pro Phe Leu Phe Ser Gly Thr Val Arg Glu
 1345 1350 1355 1360
 Asn Leu Asp Pro Gln Gly Leu His Lys Asp Arg Ala Leu Trp Gln Ala
 1365 1370 1375
 Leu Lys Gln Cys His Leu Ser Glu Val Ile Thr Ser Met Gly Gly Leu
 1380 1385 1390
 Asp Gly Glu Leu Gly Glu Gly Gly Arg Ser Leu Ser Leu Gly Gln Arg
 1395 1400 1405
 Gln Leu Leu Cys Leu Ala Arg Ala Leu Leu Thr Asp Ala Lys Ile Leu
 1410 1415 1420
 Cys Ile Asp Glu Ala Thr Ala Ser Val Asp Gln Lys Thr Asp Gln Leu
 1425 1430 1435 1440
 Leu Gln Gln Thr Ile Cys Lys Arg Phe Ala Asn Lys Thr Val Leu Thr
 1445 1450 1455
 Ile Ala His Arg Leu Asn Thr Ile Leu Asn Ser Asp Arg Val Leu Val
 1460 1465 1470
 Leu Gln Ala Gly Arg Val Val Glu Leu Asp Ser Pro Ala Thr Leu Arg
 1475 1480 1485
 Asn Gln Pro His Ser Leu Phe Gln Gln Leu Leu Gln Ser Ser Gln Gln
 1490 1495 1500
 Gly Val Pro Ala Ser Leu Gly Gly Pro
 1505 1510

<210> 18

<211> 282

<212> PRT

<213> Homo sapiens

<400> 18

Met Ala Ala Val Arg Val Leu Val Ala Ser Arg Leu Ala Ala Ser
 1 5 10 15
 Ala Phe Thr Ser Leu Ser Pro Gly Gly Arg Thr Pro Ser Gln Arg Ala
 20 25 30
 Ala Leu His Leu Ser Val Pro Arg Pro Ala Ala Arg Val Ala Leu Val
 35 40 45
 Leu Ser Gly Cys Gly Val Tyr Asp Gly Thr Glu Ile His Glu Ala Ser
 50 55 60
 Ala Ile Leu Val His Leu Ser Arg Gly Gly Ala Glu Val Gln Ile Phe
 65 70 75 80
 Ala Pro Asp Val Pro Gln Met His Val Ile Asp His Thr Lys Gly Gln
 85 90 95
 Pro Ser Glu Gly Glu Ser Arg Asn Val Leu Thr Glu Ser Ala Arg Ile
 100 105 110
 Ala Arg Gly Lys Ile Thr Asp Leu Ala Asn Leu Ser Ala Ala Asn His
 115 120 125
 Asp Ala Ala Ile Phe Pro Gly Gly Phe Gly Ala Ala Lys Asn Leu Ser
 130 135 140
 Thr Phe Ala Val Asp Gly Lys Asp Cys Lys Val Asn Lys Glu Val Glu
 145 150 155 160
 Arg Val Leu Lys Glu Phe His Gln Ala Gly Lys Pro Ile Gly Leu Cys
 165 170 175

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Cys Ile Ala Pro Val Leu Ala Ala Lys Val Leu Arg Gly Val Glu Val
 180 185 190
 Thr Val Gly His Glu Glu Gln Glu Gly Gly Lys Trp Pro Tyr Ala Gly
 195 200 205
 Thr Ala Glu Ala Ile Lys Ala Leu Gly Ala Lys His Cys Val Lys Glu
 210 215 220
 Val Ser Leu Arg Ser Val Leu Gly Gly Phe Phe Arg Asn Ser Ala His
 225 230 235 240
 Glu Ala His Val Asp Gln Lys Asn Lys Val Val Thr Thr Pro Ala Phe
 245 250 255
 Met Cys Glu Thr Ala Leu His Tyr Ile His Asp Gly Ile Gly Ala Met
 260 265 270
 Val Arg Lys Val Leu Glu Leu Thr Gly Lys
 275 280

<210> 19
 <211> 297
 <212> PRT
 <213> Homo sapiens

<400> 19
 Met Ala Glu Leu Thr Ala Leu Glu Ser Leu Ile Glu Met Gly Phe Pro
 1 5 10 15
 Arg Gly Arg Ala Glu Lys Ala Leu Ala Leu Thr Gly Asn Gln Gly Ile
 20 25 30
 Glu Ala Ala Met Asp Trp Leu Met Glu His Glu Asp Asp Pro Asp Val
 35 40 45
 Asp Glu Pro Leu Glu Thr Pro Leu Gly His Ile Leu Gly Arg Glu Pro
 50 55 60
 Thr Ser Ser Glu Gln Gly Gly Leu Glu Gly Ser Gly Ser Ala Ala Gly
 65 70 75 80
 Glu Gly Lys Pro Ala Leu Ser Glu Glu Glu Arg Gln Glu Gln Thr Lys
 85 90 95
 Arg Met Leu Glu Leu Val Ala Gln Lys Gln Arg Glu Arg Glu Arg
 100 105 110
 Glu Glu Arg Glu Ala Leu Glu Arg Glu Arg Gln Arg Arg Gln Gly
 115 120 125
 Gln Glu Leu Ser Ala Ala Arg Gln Arg Leu Gln Glu Asp Glu Met Arg
 130 135 140
 Arg Ala Ala Glu Glu Arg Arg Arg Glu Lys Ala Glu Glu Leu Ala Ala
 145 150 155 160
 Arg Gln Arg Val Arg Glu Lys Ile Glu Arg Asp Lys Ala Glu Arg Ala
 165 170 175
 Lys Lys Tyr Gly Gly Ser Val Gly Ser Gln Pro Pro Pro Val Ala Pro
 180 185 190
 Glu Pro Gly Pro Val Pro Ser Ser Pro Ser Gln Glu Pro Pro Thr Lys
 195 200 205
 Arg Glu Tyr Asp Gln Cys Arg Ile Gln Val Arg Leu Pro Asp Gly Thr
 210 215 220
 Ser Leu Thr Gln Thr Phe Arg Ala Arg Glu Gln Leu Ala Ala Val Arg
 225 230 235 240
 Leu Tyr Val Glu Leu His Arg Gly Glu Glu Leu Gly Gly Gln Asp
 245 250 255
 Pro Val Gln Leu Leu Ser Gly Phe Pro Arg Arg Ala Phe Ser Glu Ala
 260 265 270
 Asp Met Glu Arg Pro Leu Gln Glu Leu Gly Leu Val Pro Ser Ala Val
 275 280 285
 Leu Ile Val Ala Lys Lys Cys Pro Ser
 290 295

<210> 20
 <211> 221
 <212> PRT

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<213> Homo sapiens

<400> 20

Gln Val Lys Leu Lys Ile Pro Phe Gly Asn Lys Leu Leu Asp Ala Val
 1 5 10 15
 Cys Leu Val Pro Asn Lys Ser Leu Thr Tyr Gly Ile Ile Leu Thr His
 20 25 30
 Gly Ala Ser Gly Asp Met Asn Leu Pro His Leu Met Ser Leu Ala Ser
 35 40 45
 His Leu Ala Ser His Gly Phe Phe Cys Leu Arg Phe Thr Cys Lys Gly
 50 55 60
 Leu Asn Ile Val His Arg Ile Lys Ala Tyr Lys Ser Val Leu Asn Tyr
 65 70 75 80
 Leu Lys Thr Ser Gly Glu Tyr Lys Leu Ala Gly Val Phe Leu Gly Gly
 85 90 95
 Arg Ser Met Gly Ser Arg Ala Ala Ser Val Met Cys His Ile Glu
 100 105 110
 Pro Asp Asp Gly Asp Asp Phe Val Arg Gly Leu Ile Cys Ile Ser Tyr
 115 120 125
 Pro Leu His His Pro Lys Gln Gln His Lys Leu Arg Asp Glu Asp Leu
 130 135 140
 Phe Arg Leu Lys Glu Pro Val Leu Phe Val Ser Gly Ser Ala Asp Glu
 145 150 155 160
 Met Cys Glu Lys Asn Leu Leu Glu Lys Val Ala Gln Lys Met Gln Ala
 165 170 175
 Pro His Lys Ile His Trp Ile Glu Lys Ala Asn His Ser Met Ala Val
 180 185 190
 Lys Gly Arg Ser Thr Asn Asp Val Phe Lys Glu Ile Asn Thr Gln Ile
 195 200 205
 Leu Phe Trp Ile Gln Glu Ile Thr Glu Met Asp Lys Lys
 210 215 220

<210> 21

<211> 305

<212> PRT

<213> Homo sapiens

<400> 21

Met Asn Gly Leu Ser Leu Ser Glu Leu Cys Cys Leu Phe Cys Cys Pro
 1 5 10 15
 Pro Cys Pro Gly Arg Ile Ala Ala Lys Leu Ala Phe Leu Pro Pro Glu
 20 25 30
 Ala Thr Tyr Ser Leu Val Thr Glu Pro Glu Pro Gly Pro Gly Ala
 35 40 45
 Gly Ala Ala Pro Leu Gly Thr Leu Arg Ala Ser Ser Gly Ala Pro Gly
 50 55 60
 Arg Trp Lys Leu His Leu Thr Glu Arg Ala Asp Phe Gln Tyr Ser Gln
 65 70 75 80
 Arg Glu Leu Asp Thr Ile Glu Val Phe Pro Thr Lys Ser Ala Arg Arg
 85 90 95
 Asn Arg Val Ser Cys Met Tyr Val Arg Cys Val Thr Gly Ala Arg Tyr
 100 105 110
 Thr Val Leu Phe Ser His Ser Asn Ala Val Asp Leu Gly Gln Met Ser
 115 120 125
 Ser Phe Tyr Ile Gly Leu Gly Ser Arg Leu His Cys Asn Ile Phe Ser
 130 135 140
 Tyr Asp Tyr Ser Gly Tyr Gly Ala Ser Ser Gly Arg Pro Ser Glu Arg
 145 150 155 160
 Asn Leu Tyr Ala Asp Ile Asp Ala Ala Trp Gln Ala Leu Arg Thr Arg
 165 170 175
 Tyr Gly Ile Ser Pro Asp Ser Ile Ile Leu Tyr Gly Gln Ser Ile Gly
 180 185 190
 Thr Val Pro Thr Val Asp Leu Ala Ser Arg Tyr Glu Cys Ala Ala Val

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195	200	205
Val Leu His Ser Pro Leu Thr Ser Gly Met Arg Val Ala Phe Pro Asp		
210	215	220
Thr Lys Lys Thr Tyr Cys Phe Asp Ala Phe Pro Asn Ile Glu Lys Val		
225	230	235
Ser Lys Ile Thr Ser Pro Val Leu Ile Ile His Gly Thr Glu Asp Glu		
245	250	255
Val Ile Asp Phe Ser His Gly Leu Ala Leu Tyr Glu Arg Cys Pro Lys		
260	265	270
Ala Val Glu Pro Leu Trp Val Glu Gly Thr Arg His Asn Asp Ile Glu		
275	280	285
Leu Tyr Ser Gln Tyr Leu Glu Gly Leu Arg Arg Phe Ile Ser Gln Glu		
290	295	300

Leu

305

<210> 22

<211> 243

<212> PRT

<213> Homo sapiens

<400> 22

1	5	10	15
Ala Gln Gly Lys Asp Gln Met Trp Tyr Glu Asp Ala Leu Ala Ser Ser			
His Pro Ile Ile Leu Tyr Leu His Gly Asn Ala Gly Thr Arg Cys Leu			
20	25	30	
Phe Phe Thr Leu Gln Val Leu Ser Ser Leu Gly Tyr His Val Val Thr			
35	40	45	
Phe Asp Tyr Arg Gly Trp Gly Asp Ser Val Gly Thr Pro Ser Glu Arg			
50	55	60	
Gly Met Thr Tyr Asp Ala Leu His Val Phe Asp Trp Ile Lys Ala Arg			
65	70	75	80
Ser Gly Asp Asn Pro Val Tyr Ile Trp Gly His Ser Leu Gly Thr Gly			
85	90	95	
Val Ala Thr Asn Leu Val Arg Arg Leu Cys Glu Arg Glu Thr Pro Pro			
100	105	110	
Asp Ala Leu Ile Leu Glu Ser Pro Phe Thr Asn Ile Arg Glu Glu Ala			
115	120	125	
Lys Ser His Pro Phe Ser Ile Tyr Arg Tyr Phe Pro Gly Phe Asp Trp			
130	135	140	
Phe Phe Leu Asp Pro Ile Thr Ser Ser Gly Ile Lys Phe Ala Asn Asp			
145	150	155	160
Glu Asn Val Lys His Ile Ser Cys Pro Leu Leu Ile Leu His Ala Glu			
165	170	175	
Asp Asp Pro Val Val Pro Phe Gln Leu Gly Arg Lys Leu Tyr Ser Ile			
180	185	190	
Ala Ala Pro Ala Arg Ser Phe Arg Asp Phe Lys Val Gln Phe Val Pro			
195	200	205	
Phe His Ser Asp Leu Gly Tyr Arg His Lys Tyr Ile Tyr Lys Ser Pro			
210	215	220	
Glu Leu Pro Arg Ile Leu Arg Glu Phe Leu Gly Lys Ser Glu Pro Glu			
225	230	235	240
His Gln His			

<210> 23

<211> 233

<212> PRT

<213> Homo sapiens

<400> 23

1	5	10	15
Met Asp Ala Ser Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val			

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Ser Ala Val Gln Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val
20 25 30
Met Glu Lys Thr Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln
35 40 45
Phe Ala Ala Ala Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val
50 55 60
Thr Glu Arg Asn Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly
65 70 75 80
Ala Gln Lys Thr Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val
85 90 95
Ala Leu Asp Cys Lys Gly Asn Val Ala Tyr Ala Thr Ser Thr Gly Gly
100 105 110
Ile Val Asn Lys Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Ala
115 120 125
Gly Ala Gly Gly Tyr Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr
130 135 140
Gly His Gly Glu Ser Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu
145 150 155 160
Phe His Ile Glu Gln Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser
165 170 175
Leu Gly Tyr Met Lys Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val
180 185 190
Val Ser Lys Thr Gly Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met
195 200 205
Pro Trp Ala Ala Ala Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro
210 215 220
Asp Asp Thr Thr Ile Thr Asp Leu Pro
225 230

<210> 24

<211> 166

<212> PRT

<213> Homo sapiens

<400> 24

Met Leu Arg Gly Val Leu Gly Lys Thr Phe Arg Leu Val Gly Tyr Thr
1 5 10 15
Ile Gln Tyr Gly Cys Ile Ala His Cys Ala Phe Glu Tyr Val Gly Gly
20 25 30
Val Val Met Cys Ser Gly Pro Ser Met Glu Pro Thr Ile Gln Asn Ser
35 40 45
Asp Ile Val Phe Ala Glu Asn Leu Ser Arg His Phe Tyr Gly Ile Gln
50 55 60
Arg Gly Asp Ile Val Ile Ala Lys Ser Pro Ser Asp Pro Lys Ser Asn
65 70 75 80
Ile Cys Lys Arg Val Ile Gly Leu Glu Gly Asp Lys Ile Leu Thr Thr
85 90 95
Ser Pro Ser Asp Phe Phe Lys Ser His Ser Tyr Val Pro Met Gly His
100 105 110
Val Trp Leu Glu Gly Asp Asn Leu Gln Asn Ser Thr Asp Ser Arg Cys
115 120 125
Tyr Gly Pro Ile Pro Tyr Gly Leu Ile Arg Gly Arg Ile Phe Phe Lys
130 135 140
Ile Trp Pro Leu Ser Asp Phe Gly Phe Leu Arg Ala Ser Pro Asn Gly
145 150 155 160
His Arg Phe Ser Asp Asp
165

<210> 25

<211> 1091

<212> PRT

<213> Homo sapiens

GC773-2-seqlist

<400> 25

Met Met Asp Ser Pro Lys Ile Gly Asn Gly Leu Pro Val Ile Gly Pro
 1 5 10 15
 Gly Thr Asp Ile Gly Ile Ser Ser Leu His Met Val Gly Tyr Leu Gly
 20 25 30
 Lys Asn Phe Asp Ser Ala Lys Val Pro Ser Asp Glu Tyr Cys Pro Ala
 35 40 45
 Cys Arg Glu Lys Gly Lys Leu Lys Ala Leu Lys Thr Tyr Arg Ile Ser
 50 55 60
 Phe Gln Glu Ser Ile Phe Leu Cys Glu Asp Leu Gln Cys Ile Tyr Pro
 65 70 75 80
 Leu Gly Ser Lys Ser Leu Asn Asn Leu Ile Ser Pro Asp Leu Glu Glu
 85 90 95
 Cys His Thr Pro His Lys Pro Gln Lys Arg Lys Ser Leu Glu Ser Ser
 100 105 110
 Tyr Lys Asp Ser Leu Leu Ala Asn Ser Lys Lys Thr Arg Asn Tyr
 115 120 125
 Ile Ala Ile Asp Gly Gly Lys Val Leu Asn Ser Lys His Asn Gly Glu
 130 135 140
 Val Tyr Asp Glu Thr Ser Ser Asn Leu Pro Asp Ser Ser Gly Gln Gln
 145 150 155 160
 Asn Pro Ile Arg Thr Ala Asp Ser Leu Glu Arg Asn Glu Ile Leu Glu
 165 170 175
 Ala Asp Thr Val Asp Met Ala Thr Thr Lys Asp Pro Ala Thr Val Asp
 180 185 190
 Val Ser Gly Thr Gly Arg Pro Ser Pro Gln Asn Glu Gly Cys Thr Ser
 195 200 205
 Lys Leu Glu Met Pro Leu Glu Ser Lys Cys Thr Ser Phe Pro Gln Ala
 210 215 220
 Leu Cys Val Gln Trp Lys Asn Ala Tyr Ala Leu Cys Trp Leu Asp Cys
 225 230 235 240
 Ile Leu Ser Ala Leu Val His Ser Glu Glu Leu Lys Asn Thr Val Thr
 245 250 255
 Gly Leu Cys Ser Lys Glu Glu Ser Ile Phe Trp Arg Leu Leu Thr Lys
 260 265 270
 Tyr Asn Gln Ala Asn Thr Leu Leu Tyr Thr Ser Gln Leu Ser Gly Val
 275 280 285
 Lys Asp Gly Asp Cys Lys Lys Leu Thr Ser Glu Ile Phe Ala Glu Ile
 290 295 300
 Glu Thr Cys Leu Asn Glu Val Arg Asp Glu Ile Phe Ile Ser Leu Gln
 305 310 315 320
 Pro Gln Leu Arg Cys Thr Leu Gly Asp Met Glu Ser Pro Val Phe Ala
 325 330 335
 Phe Pro Leu Leu Lys Leu Glu Thr His Ile Glu Lys Leu Phe Leu
 340 345 350
 Tyr Ser Phe Ser Trp Asp Phe Glu Cys Ser Gln Cys Gly His Gln Tyr
 355 360 365
 Gln Asn Arg His Met Lys Ser Leu Val Thr Phe Thr Asn Val Ile Pro
 370 375 380
 Glu Trp His Pro Leu Asn Ala Ala His Phe Gly Pro Cys Asn Asn Cys
 385 390 395 400
 Asn Ser Lys Ser Gln Ile Arg Lys Met Val Leu Glu Lys Val Ser Pro
 405 410 415
 Ile Phe Met Leu His Phe Val Glu Gly Leu Pro Gln Asn Asp Leu Gln
 420 425 430
 His Tyr Ala Phe His Phe Glu Gly Cys Leu Tyr Gln Ile Thr Ser Val
 435 440 445
 Ile Gln Tyr Arg Ala Asn Asn His Phe Ile Thr Trp Ile Leu Asp Ala
 450 455 460
 Asp Gly Asn Trp Leu Glu Cys Asp Asp Leu Lys Gly Pro Cys Ser Glu
 465 470 475 480
 Arg His Lys Lys Phe Glu Val Pro Ala Ser Glu Ile His Ile Val Ile
 485 490 495

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Trp Glu Arg Lys Ile Ser Gln Val Thr Asp Lys Glu Ala Ala Cys Leu
 500 505 510
 Pro Leu Lys Lys Thr Asn Asp Gln His Ala Leu Ser Asn Glu Lys Pro
 515 520 525
 Val Ser Leu Thr Ser Cys Ser Val Gly Asp Ala Ala Ser Ala Glu Thr
 530 535 540
 Ala Ser Val Thr His Pro Lys Asp Ile Ser Val Ala Pro Arg Thr Leu
 545 550 555 560
 Ser Gln Asp Thr Ala Val Thr His Gly Asp His Leu Leu Ser Gly Pro
 565 570 575
 Lys Gly Leu Val Asp Asn Ile Leu Pro Leu Thr Leu Glu Glu Thr Ile
 580 585 590
 Gln Lys Thr Ala Ser Val Ser Gln Leu Asn Ser Glu Ala Phe Leu Leu
 595 600 605
 Glu Asn Lys Pro Val Ala Glu Asn Thr Gly Ile Leu Lys Thr Asn Thr
 610 615 620
 Leu Leu Ser Gln Glu Ser Leu Met Ala Ser Ser Val Ser Ala Pro Cys
 625 630 635 640
 Asn Glu Lys Leu Ile Gln Asp Gln Phe Val Asp Ile Ser Phe Pro Ser
 645 650 655
 Gln Val Val Asn Thr Asn Met Gln Ser Val Gln Leu Asn Thr Glu Asp
 660 665 670
 Thr Val Asn Thr Lys Ser Val Asn Asn Thr Asp Ala Thr Gly Leu Ile
 675 680 685
 Gln Gly Val Lys Ser Val Glu Ile Glu Lys Asp Ala Gln Leu Lys Gln
 690 695 700
 Phe Leu Thr Pro Lys Thr Glu Gln Leu Lys Pro Glu Arg Val Thr Ser
 705 710 715 720
 Gln Val Ser Asn Leu Lys Lys Glu Thr Thr Ala Asp Ser Gln Thr
 725 730 735
 Thr Thr Ser Lys Ser Leu Gln Asn Gln Ser Leu Lys Glu Asn Gln Lys
 740 745 750
 Lys Pro Phe Val Gly Ser Trp Val Lys Gly Leu Ile Ser Arg Gly Ala
 755 760 765
 Ser Phe Met Pro Leu Cys Val Ser Ala His Asn Arg Asn Thr Ile Thr
 770 775 780
 Asp Leu Gln Pro Ser Val Lys Gly Val Asn Asn Phe Gly Gly Phe Lys
 785 790 795 800
 Thr Lys Gly Ile Asn Gln Lys Ala Ser His Val Ser Lys Lys Ala Arg
 805 810 815
 Lys Ser Ala Ser Lys Pro Pro Pro Ile Ser Lys Pro Pro Ala Gly Pro
 820 825 830
 Pro Ser Ser Asn Gly Thr Ala Ala His Pro His Ala His Ala Ser
 835 840 845
 Glu Val Leu Glu Lys Ser Gly Ser Thr Ser Cys Gly Ala Gln Leu Asn
 850 855 860
 His Ser Ser Tyr Gly Asn Gly Ile Ser Ser Ala Asn His Glu Asp Leu
 865 870 875 880
 Val Glu Gly Gln Ile His Lys Leu Arg Leu Lys Leu Arg Lys Lys Leu
 885 890 895
 Lys Ala Glu Lys Lys Leu Ala Ala Leu Met Ser Ser Pro Gln Ser
 900 905 910
 Arg Thr Val Arg Ser Glu Asn Leu Glu Gln Val Pro Gln Asp Gly Ser
 915 920 925
 Pro Asn Asp Cys Glu Ser Ile Glu Asp Leu Asn Glu Leu Pro Tyr Pro
 930 935 940
 Ile Asp Ile Ala Ser Glu Ser Ala Cys Thr Thr Val Pro Gly Val Ser
 945 950 955 960
 Leu Tyr Ser Ser Gln Thr His Glu Glu Ile Leu Ala Glu Leu Leu Ser
 965 970 975
 Pro Thr Pro Val Ser Thr Glu Leu Ser Glu Asn Gly Glu Gly Asp Phe
 980 985 990
 Arg Tyr Leu Gly Met Gly Asp Ser His Ile Pro Pro Pro Val Pro Ser

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995	1000	1005
Glu Phe Asn Asp Val Ser Gln Asn Thr His Leu Arg Gln Asp His Asn		
1010	1015	1020
Tyr Cys Ser Pro Thr Lys Lys Asn Pro Cys Glu Val Gln Pro Asp Ser		
1025	1030	1035
Leu Thr Asn Asn Ala Cys Val Arg Thr Leu Asn Leu Glu Ser Pro Met		
1045	1050	1055
Lys Thr Asp Ile Phe Asp Glu Phe Phe Ser Ser Ser Ala Leu Asn Ala		
1060	1065	1070
Leu Ala Asn Asp Thr Leu Asp Leu Pro His Phe Asp Glu Tyr Leu Phe		
1075	1080	1085
Glu Asn Tyr		
1090		

<210> 26

<211> 439

<212> PRT

<213> Homo sapiens

<400> 26

Met Leu Thr Gly Val Thr Asp Gly Ile Phe Cys Cys Leu Leu Gly Thr			
1	5	10	15
Pro Pro Asn Ala Val Gly Pro Leu Glu Ser Val Glu Ser Ser Asp Gly			
20	25	30	
Tyr Thr Phe Val Glu Val Lys Pro Gly Arg Val Leu Arg Val Lys His			
35	40	45	
Ala Gly Pro Ala Pro Ala Ala Ala Pro Pro Pro Pro Ser Ser Ala Ser			
50	55	60	
Ser Asp Ala Ala Gln Gly Asp Leu Ser Gly Leu Val Arg Cys Gln Arg			
65	70	75	80
Arg Ile Thr Val Tyr Arg Asn Gly Arg Leu Leu Val Glu Asn Leu Gly			
85	90	95	
Arg Ala Pro Arg Ala Asp Leu Leu His Gly Gln Asn Gly Ser Gly Glu			
100	105	110	
Pro Pro Ala Ala Leu Glu Val Glu Leu Ala Asp Pro Ala Gly Ser Asp			
115	120	125	
Gly Arg Leu Ala Pro Gly Ser Ala Gly Ser Gly Ser Gly Ser Gly Ser			
130	135	140	
Gly Gly Arg Arg Arg Ala Arg Arg Pro Lys Arg Thr Ile His Ile			
145	150	155	160
Asp Cys Glu Lys Arg Ile Thr Ser Cys Lys Gly Ala Gln Ala Asp Val			
165	170	175	
Val Leu Phe Phe Ile His Gly Val Gly Gly Ser Leu Ala Ile Trp Lys			
180	185	190	
Glu Gln Leu Asp Phe Phe Val Arg Leu Gly Tyr Glu Val Val Ala Pro			
195	200	205	
Asp Leu Ala Gly His Gly Ala Ser Ser Ala Pro Gln Val Ala Ala Ala			
210	215	220	
Tyr Thr Phe Tyr Ala Leu Ala Glu Asp Met Arg Ala Ile Phe Lys Arg			
225	230	235	240
Tyr Ala Lys Lys Arg Asn Val Leu Ile Gly His Ser Tyr Gly Val Ser			
245	250	255	
Phe Cys Thr Phe Leu Ala His Glu Tyr Pro Asp Leu Val His Lys Val			
260	265	270	
Ile Met Ile Asn Gly Gly Pro Thr Ala Leu Glu Pro Ser Phe Cys			
275	280	285	
Ser Ile Phe Asn Met Pro Thr Cys Val Leu His Cys Leu Ser Pro Cys			
290	295	300	
Leu Ala Trp Ser Phe Leu Lys Ala Gly Phe Ala Arg Gln Gly Ala Lys			
305	310	315	320
Glu Lys Gln Leu Leu Lys Glu Gly Asn Ala Phe Asn Val Ser Ser Phe			
325	330	335	
val Leu Arg Ala Met Met Ser Gly Gln Tyr Trp Pro Glu Gly Asp Glu			

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340	345	350
val Tyr His Ala Glu Leu Thr Val Pro Val Leu Leu Val His Gly Met		
355	360	365
His Asp Lys Phe Val Pro Val Glu Glu Asp Gln Arg Met Ala Glu Ile		
370	375	380
Leu Leu Leu Ala Phe Leu Lys Leu Ile Asp Glu Gly Ser His Met Val		
385	390	395
Met Leu Glu Cys Pro Glu Thr Val Asn Thr Leu Leu His Glu Phe Leu		
405	410	415
Leu Trp Glu Pro Glu Pro Ser Pro Lys Ala Leu Pro Glu Pro Leu Pro		
420	425	430
Ala Pro Pro Glu Asp Lys Lys		
435		

<210> 27

<211> 514

<212> PRT

<213> Homo sapiens

<400> 27

Met Arg Arg Gln Trp Gly Ser Ala Met Arg Ala Ala Glu Gln Ala Gly			
1	5	10	15
Cys Met Val Ser Ala Ser Arg Ala Gly Gln Pro Glu Ala Gly Pro Trp			
20	25	30	
Ser Cys Ser Gly Val Ile Leu Ser Arg Ser Pro Gly Leu Val Leu Cys			
35	40	45	
His Gly Gly Ile Phe Val Pro Phe Leu Arg Ala Gly Ser Glu Val Leu			
50	55	60	
Thr Ala Gly Ala Val Phe Leu Pro Gly Asp Ser Cys Arg Asp Asp Leu			
65	70	75	80
Arg Leu His Val Gln Trp Ala Pro Thr Gly Ala Pro Arg Gly Gln Ala			
85	90	95	
Arg Thr Gly Pro Pro Arg Leu Ala Arg Pro Met Arg Asp Leu Ser Pro			
100	105	110	
Pro Pro Pro Ser Gln Ala Ser Leu Ser Gln Ser Cys Asp Trp Arg Ile			
115	120	125	
Thr Glu Thr Leu Gly Trp Phe Ala Leu Leu Gly Val Arg Leu Gly Gln			
130	135	140	
Glu Glu Trp Arg Arg Gly Pro Met Ala Val Ser Pro Leu Gly Ala			
145	150	155	160
Val Pro Lys Gly Ala Pro Leu Leu Val Cys Gly Ser Pro Phe Gly Ala			
165	170	175	
Phe Cys Pro Asp Ile Phe Leu Asn Thr Leu Ser Cys Gly Val Leu Ser			
180	185	190	
Asn Val Ala Gly Pro Leu Leu Leu Thr Asp Ala Arg Cys Leu Pro Gly			
195	200	205	
Thr Glu Gly Gly Val Phe Thr Ala Arg Pro Ala Gly Ala Leu Val			
210	215	220	
Ala Leu Val Val Ala Pro Leu Cys Trp Lys Ala Gly Glu Trp Val Gly			
225	230	235	240
Phe Thr Leu Leu Cys Ala Ala Ala Pro Leu Phe Arg Ala Ala Arg Asp			
245	250	255	
Ala Leu His Arg Leu Pro His Ser Thr Ala Ala Leu Ala Ala Leu Leu			
260	265	270	
Pro Pro Glu Val Gly Val Pro Trp Gly Leu Pro Leu Arg Asp Ser Gly			
275	280	285	
Pro Leu Trp Ala Ala Ala Val Leu Val Glu Cys Gly Thr Val Trp			
290	295	300	
Gly Ser Gly Val Ala Val Ala Pro Arg Leu Val Val Thr Cys Arg His			
305	310	315	320
Val Ser Pro Arg Glu Ala Ala Arg Val Leu Val Arg Ser Thr Thr Pro			
325	330	335	
Lys Ser Val Ala Ile Trp Gly Arg Val Val Phe Ala Thr Gln Glu Thr			

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340	345	350
Cys Pro Tyr Asp Ile Ala Val Val	Ser Leu Glu Glu Asp Leu Asp Asp	
355	360	365
Val Pro Ile Pro Val Pro Ala Glu His Phe His Glu Gly Glu Ala Val		
370	375	380
Ser Val Val Gly Phe Gly Val Phe Gly Gln Ser Cys Gly Pro Ser Val		
385	390	395
Thr Ser Gly Ile Leu Ser Ala Val Val Gln Val Asn Gly Thr Pro Val		
405	410	415
Met Leu Gln Thr Thr Cys Ala Val His Ser Gly Ser Ser Gly Gly Pro		
420	425	430
Leu Phe Ser Asn His Ser Gly Asn Leu Leu Gly Ile Ile Thr Ser Asn		
435	440	445
Thr Arg Asp Asn Asn Thr Gly Ala Thr Tyr Pro His Leu Asn Phe Ser		
450	455	460
Ile Pro Ile Thr Val Leu Gln Pro Ala Leu Gln Gln Tyr Ser Gln Thr		
465	470	475
Gln Asp Leu Gly Gly Leu Arg Glu Leu Asp Arg Ala Ala Glu Pro Val		
485	490	495
Arg Val Val Trp Arg Leu Gln Arg Pro Leu Ala Glu Ala Pro Arg Ser		
500	505	510
Lys Leu		

<210> 28
 <211> 305
 <212> PRT
 <213> Homo sapiens

<400> 28
 Met Ala Val Ala Arg Leu Ala Ala Val Ala Ala Trp Val Pro Cys Arg
 1 5 10 15
 Ser Trp Gly Trp Ala Ala Val Pro Phe Gly Pro His Arg Gly Leu Ser
 20 25 30
 Val Leu Leu Ala Arg Ile Pro Gln Arg Ala Pro Arg Trp Leu Pro Ala
 35 40 45
 Cys Arg Gln Lys Thr Ser Leu Ser Phe Leu Asn Arg Pro Asp Leu Pro
 50 55 60
 Asn Leu Ala Tyr Lys Leu Lys Gly Lys Ser Pro Gly Ile Ile Phe
 65 70 75 80
 Ile Pro Gly Tyr Leu Ser Tyr Met Asn Gly Thr Lys Ala Leu Ala Ile
 85 90 95
 Glu Glu Phe Cys Lys Ser Leu Gly His Ala Cys Ile Arg Phe Asp Tyr
 100 105 110
 Ser Gly Val Gly Ser Ser Asp Gly Asn Ser Glu Glu Ser Thr Leu Gly
 115 120 125
 Lys Trp Arg Lys Asp Val Leu Ser Ile Ile Asp Asp Leu Ala Asp Gly
 130 135 140
 Pro Gln Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu His
 145 150 155 160
 Ala Ala Ala Arg Pro Glu Lys Val Val Ala Leu Ile Gly Val Ala
 165 170 175
 Thr Ala Asp Thr Leu Val Thr Lys Phe Asn Gln Leu Pro Val Glu Leu
 180 185 190
 Lys Lys Glu Val Glu Met Lys Gly Val Trp Ser Met Pro Ser Lys Tyr
 195 200 205
 Ser Glu Glu Gly Val Tyr Asn Val Gln Tyr Ser Phe Ile Lys Glu Ala
 210 215 220
 Glu His His Cys Leu Leu His Ser Pro Ile Pro Val Asn Cys Pro Ile
 225 230 235 240
 Arg Leu Leu His Gly Met Lys Asp Asp Ile Val Pro Trp His Thr Ser
 245 250 255
 Met Gln Val Ala Asp Arg Val Leu Ser Thr Asp Val Asp Val Ile Leu

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260	265	270
Arg Lys His Ser Asp His Arg	Met Arg Glu Lys Ala Asp	Ile Gln Leu
275	280	285
Leu Val Tyr Thr Ile Asp Asp	Leu Ile Asp Lys Leu	Ser Thr Ile Val
290	295	300

Asn
305

<210> 29
<211> 728
<212> PRT
<213> Homo sapiens

<400> 29			
Gln Gln Gly Ser Ile Thr Leu Ser Leu Trp Thr Leu Pro Asp Val Leu			
1	5	10	15
Ile Ile His Leu Lys Arg Phe Arg	Gln Glu Gly Asp Arg Arg	Arg Met Lys	
20	25	30	
Leu Gln Asn Met Val Lys Phe Pro Leu Thr Gly Leu Asp Met Thr Pro			
35	40	45	
His Val Val Lys Arg Ser Gln Ser Ser Trp Ser Leu Pro Ser His Trp			
50	55	60	
Ser Pro Trp Arg Arg Pro Tyr Gly Leu Gly Arg Asp Pro Glu Asp Tyr			
65	70	75	80
Ile Tyr Asp Leu Tyr Ala Val Cys Asn His His Gly Thr Met Gln Gly			
85	90	95	
Gly His Tyr Thr Ala Tyr Cys Lys Asn Ser Val Asp Gly Leu Trp Tyr			
100	105	110	
Cys Phe Asp Asp Ser Asp Val Gln Gln Leu Ser Glu Asp Glu Val Cys			
115	120	125	
Thr Gln Thr Ala Tyr Ile Leu Phe Tyr Gln Arg Arg Thr Ala Ile Pro			
130	135	140	
Ser Trp Ser Ala Asn Ser Ser Val Ala Gly Ser Thr Ser Ser Leu			
145	150	155	160
Cys Glu His Trp Val Ser Arg Leu Pro Gly Ser Lys Pro Ala Ser Val			
165	170	175	
Thr Ser Ala Ala Ser Ser Arg Arg Thr Ser Leu Ala Ser Leu Ser Glu			
180	185	190	
Ser Val Glu Met Thr Gly Glu Arg Ser Glu Asp Asp Gly Gly Cys Phe			
195	200	205	
Ser Thr Arg Pro Phe Val Arg Ser Val Gln Arg Gln Ser Leu Ser Ser			
210	215	220	
Arg Ser Ser Val Thr Ser Pro Leu Ala Val Asn Glu Asn Cys Met Arg			
225	230	235	240
Pro Ser Trp Ser Leu Ser Ala Lys Leu Gln Met Arg Ser Asn Ser Pro			
245	250	255	
Ser Arg Phe Ser Gly Asp Ser Pro Ile His Ser Ser Ala Ser Thr Leu			
260	265	270	
Glu Lys Ile Gly Glu Ala Ala Asp Asp Lys Val Ser Ile Ser Cys Phe			
275	280	285	
Gly Ser Leu Arg Asn Leu Ser Ser Ser Tyr Gln Glu Pro Ser Asp Ser			
290	295	300	
His Ser Leu Arg Glu His Lys Ala Val Gly Arg Ala Pro Leu Ala Val			
305	310	315	320
Met Glu Gly Val Phe Lys Asp Glu Ser Asp Thr Arg Arg Leu Asn Ser			
325	330	335	
Ser Val Val Asp Thr Gln Ser Lys His Ser Ala Gln Gly Asp Arg Leu			
340	345	350	
Pro Pro Leu Ser Gly Pro Phe Asp Asn Asn Asn Gln Ile Ala Tyr Val			
355	360	365	
Asp Gln Ser Asp Ser Val Asp Ser Ser Pro Val Lys Glu Val Lys Ala			
370	375	380	
Pro Ser His Pro Gly Ser Leu Ala Lys Lys Pro Glu Ser Thr Thr Lys			

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385	390	395	400												
Arg	Ser	Pro	Ser	Ser	Lys	Gly	Thr	Ser	Glu	Pro	Glu	Lys	Ser	Leu	Arg
					405			410						415	
Lys	Gly	Arg	Pro	Ala	Leu	Ala	Ser	Gln	Glu	Ser	Ser	Leu	Ser	Ser	Thr
				420			425							430	
Ser	Pro	Ser	Ser	Pro	Leu	Pro	Val	Lys	Val	Ser	Leu	Lys	Pro	Ser	Arg
					435		440						445		
Ser	Arg	Ser	Lys	Ala	Asp	Ser	Ser	Ser	Arg	Gly	Ser	Gly	Arg	His	Ser
					450		455			460					
Ser	Pro	Ala	Pro	Ala	Gln	Pro	Lys	Lys	Glu	Ser	Ser	Pro	Lys	Ser	Gln
					465		470			475					480
Asp	Ser	Val	Ser	Ser	Pro	Ser	Pro	Gln	Lys	Gln	Lys	Ser	Ala	Ser	Ala
								485		490				495	
Leu	Thr	Tyr	Thr	Ala	Ser	Ser	Thr	Ser	Ala	Lys	Lys	Ala	Ser	Gly	Pro
					500			505						510	
Ala	Thr	Arg	Ser	Pro	Phe	Pro	Pro	Gly	Lys	Ser	Arg	Thr	Ser	Asp	His
								515		520				525	
Ser	Leu	Ser	Arg	Glu	Gly	Ser	Arg	Gln	Ser	Leu	Gly	Ser	Asp	Arg	Ala
					530		535			540					
Ser	Ala	Thr	Ser	Thr	Ser	Lys	Pro	Asn	Ser	Pro	Arg	Val	Ser	Gln	Ala
					545		550			555					560
Arg	Ala	Gly	Glu	Gly	Arg	Gly	Ala	Gly	Lys	His	Val	Arg	Ser	Ser	Ser
							565		570					575	
Met	Ala	Ser	Leu	Arg	Ser	Pro	Ser	Thr	Ser	Ile	Lys	Ser	Gly	Leu	Lys
					580			585						590	
Arg	Asp	Ser	Lys	Ser	Glu	Asp	Lys	Gly	Leu	Ser	Phe	Phe	Lys	Ser	Ala
					595		600			605					
Leu	Arg	Gln	Lys	Glu	Thr	Arg	Arg	Ser	Thr	Asp	Leu	Gly	Lys	Thr	Ala
					610		615			620					
Leu	Leu	Ser	Lys	Lys	Ala	Gly	Gly	Ser	Ser	Val	Lys	Ser	Val	Cys	Lys
					625		630			635					640
Asn	Thr	Gly	Asp	Asp	Glu	Ala	Glu	Arg	Gly	His	Gln	Pro	Pro	Ala	Ser
							645		650					655	
Gln	Gln	Pro	Asn	Ala	Asn	Thr	Thr	Gly	Lys	Glu	Gln	Leu	Val	Thr	Lys
							660		665					670	
Asp	Pro	Ala	Ser	Ala	Lys	His	Ser	Leu	Leu	Ser	Ala	Arg	Lys	Ser	Lys
					675		680			685					
Ser	Ser	Gln	Leu	Asp	Ser	Gly	Val	Pro	Ser	Ser	Pro	Gly	Gly	Arg	Gln
					690		695			700					
Ser	Ala	Glu	Lys	Ser	Ser	Lys	Lys	Leu	Ser	Ser	Ser	Met	Gln	Thr	Ser
					705		710			715					720
Ala	Arg	Pro	Ser	Gln	Lys	Pro	Gln								
					725										

<210> 30
 <211> 561
 <212> PRT
 <213> Homo sapiens

<400> 30															
Met	Cys	Gly	Ile	Trp	Ala	Leu	Phe	Gly	Ser	Asp	Asp	Cys	Leu	Ser	Val
1					5			10					15		
Gln	Cys	Leu	Ser	Ala	Met	Lys	Ile	Ala	His	Arg	Gly	Pro	Asp	Ala	Phe
					20			25					30		
Arg	Phe	Glu	Asn	Val	Asn	Gly	Tyr	Thr	Asn	Cys	Cys	Phe	Gly	Phe	His
					35			40					45		
Arg	Leu	Ala	Val	Val	Asp	Pro	Leu	Phe	Gly	Met	Gln	Pro	Ile	Arg	Val
					50			55					60		
Lys	Lys	Tyr	Pro	Tyr	Leu	Trp	Leu	Cys	Tyr	Asn	Gly	Glu	Ile	Tyr	Asn
					65			70					75		80
His	Lys	Lys	Met	Gln	Gln	His	Phe	Glu	Phe	Tyr	Gln	Thr	Lys	Val	
					85			90					95		
Asp	Gly	Glu	Ile	Ile	Leu	His	Leu	Tyr	Asp	Lys	Gly	Gly	Ile	Glu	Gln

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100	105	110
Thr Ile Cys Met Leu Asp Gly Val Phe Ala Phe Val	Leu	Leu Asp Thr
115	120	125
Ala Asn Lys Lys Val Phe Leu Gly Arg Asp Thr Tyr	Gly	Val Arg Pro
130	135	140
Leu Phe Lys Ala Met Thr Glu Asp Gly Phe	Leu Ala Val Cys Ser	Glu
145	150	155
Ala Lys Gly Leu Val Thr Leu Lys His Ser Ala Thr Pro Phe	Leu Lys	160
165	170	175
Val Glu Pro Phe Leu Pro Gly His Tyr Glu Val Leu Asp	Leu Lys Pro	180
185		190
Asn Gly Lys Val Ala Ser Val Glu Met Val Lys Tyr His	His Cys Arg	195
200		205
Asp Val Pro Leu His Ala Leu Tyr Asp Asn Val Glu	Lys Leu Phe Pro	210
215		220
Gly Phe Glu Ile Glu Thr Val Lys Asn Asn Leu Arg	Ile Leu Phe Asn	225
230		235
Asn Ala Val Lys Lys Arg Leu Met Thr Asp Arg Arg	Ile Gly Cys Leu	240
245	250	255
Leu Ser Gly Gly Leu Asp Ser Ser Leu Val Ala Ala Thr	Leu Leu Lys	260
265		270
Gln Leu Lys Glu Ala Gln Val Gln Tyr Pro Leu Gln	Thr Phe Ala Ile	275
280		285
Gly Met Glu Asp Ser Pro Asp Leu Leu Ala Ala Arg	Lys Val Ala Asp	290
295		300
His Ile Gly Ser Glu His Tyr Glu Val Leu Phe Asn	Ser Glu Glu Gly	305
310		315
Ile Gln Ala Leu Asp Glu Val Ile Phe Ser Leu Glu	Thr Tyr Asp Ile	320
325	330	335
Thr Thr Val Arg Ala Ser Val Gly Met Tyr Leu Ile Ser	Lys Tyr Ile	340
345		350
Arg Lys Asn Thr Asp Ser Val Val Ile Phe Ser Gly	Glu Gly Ser Asp	355
360		365
Glu Leu Thr Gln Gly Tyr Ile Tyr Phe His Lys Ala	Pro Ser Pro Glu	370
375		380
Lys Ala Glu Glu Glu Ser Glu Arg Leu Leu Arg	Glu Leu Tyr Leu Phe	385
390		395
Asp Val Leu Arg Ala Asp Arg Thr Thr Ala Ala His	Gly Leu Glu Leu	400
405	410	415
Arg Val Pro Phe Leu Asp His Arg Phe Ser Ser Tyr	Tyr Leu Ser Leu	420
425		430
Pro Pro Glu Met Arg Ile Pro Lys Asn Gly Ile Glu	Lys His Leu Leu	435
440		445
Arg Glu Thr Phe Glu Asp Ser Asn Leu Ile Pro Lys	Glu Ile Leu Trp	450
455		460
Arg Pro Lys Glu Ala Phe Ser Asp Gly Ile Thr Ser	Val Lys Asn Ser	465
470		475
Trp Phe Lys Ile Leu Gln Glu Tyr Val Glu His Gln	Val Asp Asp Ala	480
485	490	495
Met Met Ala Asn Ala Ala Gln Lys Phe Pro Phe Asn	Thr Pro Lys Thr	500
505		510
Lys Glu Gly Tyr Tyr Arg Gln Val Phe Glu Arg His	Tyr Pro Gly	515
520		525
Arg Ala Asp Trp Leu Ser His Tyr Trp Met Pro Lys	Trp Ile Asn Ala	530
535		540
Thr Asp Pro Ser Ala Arg Thr Leu Thr His Tyr Lys	Ser Ala Val Lys	545
550		555
Ala		560

<210> 31
<211> 830
<212> PRT

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<213> Homo sapiens

<400> 31
 Gln Ala Asn Cys Gln Ile Ala Ile Leu Tyr Gln Arg Phe Gln Arg Val
 1 5 10 15
 Val Phe Gly Ile Ser Gln Leu Leu Cys Phe Ser Ala Leu Ile Ser Glu
 20 25 30
 Leu Thr Asn Gln Lys Glu Val Ala Ala Trp Thr Tyr His Tyr Ser Thr
 35 40 45
 Lys Ala Tyr Ser Trp Asn Ile Ser Arg Lys Tyr Cys Gln Asn Arg Tyr
 50 55 60
 Thr Asp Leu Val Ala Ile Gln Asn Lys Asn Glu Ile Asp Tyr Leu Asn
 65 70 75 80
 Lys Val Leu Pro Tyr Tyr Ser Ser Tyr Tyr Trp Ile Gly Ile Arg Lys
 85 90 95
 Asn Asn Lys Thr Trp Thr Trp Val Gly Thr Lys Lys Ala Leu Thr Asn
 100 105 110
 Glu Ala Glu Asn Trp Ala Asp Asn Glu Pro Asn Asn Lys Arg Asn Asn
 115 120 125
 Glu Asp Cys Val Glu Ile Tyr Ile Lys Ser Pro Ser Ala Pro Gly Lys
 130 135 140
 Trp Asn Asp Glu His Cys Leu Lys Lys His Ala Leu Cys Tyr Thr
 145 150 155 160
 Ala Ser Cys Gln Asp Met Ser Cys Ser Lys Gln Gly Glu Cys Leu Glu
 165 170 175
 Thr Ile Gly Asn Tyr Thr Cys Ser Cys Tyr Pro Gly Phe Tyr Gly Pro
 180 185 190
 Glu Cys Glu Tyr Val Arg Glu Cys Gly Glu Leu Glu Leu Pro Gln His
 195 200 205
 Val Leu Met Asn Cys Ser His Pro Leu Gly Asn Phe Ser Phe Asn Ser
 210 215 220
 Gln Cys Ser Phe His Cys Thr Asp Gly Tyr Gln Val Asn Gly Pro Ser
 225 230 235 240
 Lys Leu Glu Cys Leu Ala Ser Gly Ile Trp Thr Asn Lys Pro Pro Gln
 245 250 255
 Cys Leu Ala Ala Gln Cys Pro Pro Leu Lys Ile Pro Glu Arg Gly Asn
 260 265 270
 Met Thr Cys Leu His Ser Ala Lys Ala Phe Gln His Gln Ser Ser Cys
 275 280 285
 Ser Phe Ser Cys Glu Glu Gly Phe Ala Leu Val Gly Pro Glu Val Val
 290 295 300
 Gln Cys Thr Ala Ser Gly Val Trp Thr Ala Pro Ala Pro Val Cys Lys
 305 310 315 320
 Ala Val Gln Cys Gln His Leu Glu Ala Pro Ser Glu Gly Thr Met Asp
 325 330 335
 Cys Val His Pro Leu Thr Ala Phe Ala Tyr Gly Ser Ser Cys Lys Phe
 340 345 350
 Glu Cys Gln Pro Gly Tyr Arg Val Arg Gly Leu Asp Met Leu Arg Cys
 355 360 365
 Ile Asp Ser Gly His Trp Ser Ala Pro Leu Pro Thr Cys Glu Ala Ile
 370 375 380
 Ser Cys Glu Pro Leu Glu Ser Pro Val His Gly Ser Met Asp Cys Ser
 385 390 395 400
 Pro Ser Leu Arg Ala Phe Gln Tyr Asp Thr Asn Cys Ser Phe Arg Cys
 405 410 415
 Ala Glu Gly Phe Met Leu Arg Gly Ala Asp Ile Val Arg Cys Asp Asn
 420 425 430
 Leu Gly Gln Trp Thr Ala Pro Ala Pro Val Cys Gln Ala Leu Gln Cys
 435 440 445
 Gln Asp Leu Pro Val Pro Asn Glu Ala Arg Val Asn Cys Ser His Pro
 450 455 460
 Phe Gly Ala Phe Arg Tyr Gln Ser Val Cys Ser Phe Thr Cys Asn Glu
 465 470 475 480

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Gly Leu Leu Leu Val Gly Ala Ser Val Leu Gln Cys Leu Ala Thr Gly
 485 490 495
 Asn Trp Asn Ser Val Pro Pro Glu Cys Gln Ala Ile Pro Cys Thr Pro
 500 505 510
 Leu Leu Ser Pro Gln Asn Gly Thr Met Thr Cys Val Gln Pro Leu Gly
 515 520 525
 Ser Ser Ser Tyr Lys Ser Thr Cys Gln Phe Ile Cys Asp Glu Gly Tyr
 530 535 540
 Ser Leu Ser Gly Pro Glu Arg Leu Asp Cys Thr Arg Ser Gly Arg Trp
 545 550 555 560
 Thr Asp Ser Pro Pro Met Cys Glu Ala Ile Lys Cys Pro Glu Leu Phe
 565 570 575
 Ala Pro Glu Gln Gly Ser Leu Asp Cys Ser Asp Thr Arg Gly Glu Phe
 580 585 590
 Asn Val Gly Ser Thr Cys His Phe Ser Cys Asp Asn Gly Phe Lys Leu
 595 600 605
 Glu Gly Pro Asn Asn Val Glu Cys Thr Thr Ser Gly Arg Trp Ser Ala
 610 615 620
 Thr Pro Pro Thr Cys Lys Gly Ile Ala Ser Leu Pro Thr Pro Gly Val
 625 630 635 640
 Gln Cys Pro Ala Leu Thr Thr Pro Gly Gln Gly Thr Met Tyr Cys Arg
 645 650 655
 His His Pro Gly Thr Phe Gly Phe Asn Thr Thr Cys Tyr Phe Gly Cys
 660 665 670
 Asn Ala Gly Phe Thr Leu Ile Gly Asp Ser Thr Leu Ser Cys Arg Pro
 675 680 685
 Ser Gly Gln Trp Thr Ala Val Thr Pro Ala Cys Arg Ala Val Lys Cys
 690 695 700
 Ser Glu Leu His Val Asn Lys Pro Ile Ala Met Asn Cys Ser Asn Leu
 705 710 715 720
 Trp Gly Asn Phe Ser Tyr Gly Ser Ile Cys Ser Phe His Cys Leu Glu
 725 730 735
 Gly Gln Leu Leu Asn Gly Ser Ala Gln Thr Ala Cys Gln Glu Asn Gly
 740 745 750
 His Trp Ser Thr Thr Val Pro Thr Cys Gln Ala Gly Pro Leu Thr Ile
 755 760 765
 Gln Glu Ala Leu Thr Tyr Phe Gly Gly Ala Val Ala Ser Thr Ile Gly
 770 775 780
 Leu Ile Met Gly Gly Thr Leu Leu Ala Leu Leu Arg Lys Arg Phe Arg
 785 790 795 800
 Gln Lys Asp Asp Gly Lys Cys Pro Leu Asn Pro His Ser His Leu Gly
 805 810 815
 Thr Tyr Gly Val Phe Thr Asn Ala Ala Phe Asp Pro Ser Pro
 820 825 830

<210> 32

<211> 2386

<212> PRT

<213> Homo sapiens

<400> 32

Met Leu Arg Gly Pro Gly Pro Gly Leu Leu Leu Ala Val Gln Cys
 1 5 10 15
 Leu Gly Thr Ala Val Pro Ser Thr Gly Ala Ser Lys Ser Lys Arg Gln
 20 25 30
 Ala Gln Gln Met Val Gln Pro Gln Ser Pro Val Ala Val Ser Gln Ser
 35 40 45
 Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn Gln Gln
 50 55 60
 Trp Glu Arg Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys Tyr Gly
 65 70 75 80
 Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu Glu Thr
 85 90 95

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Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp Thr Tyr
 100 105 110
 Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile Gly Ala
 115 120 125
 Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His Glu Gly
 130 135 140
 Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His Glu Thr
 145 150 155 160
 Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys Gly Glu
 165 170 175
 Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp His Ala Ala Gly
 180 185 190
 Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys Pro Tyr Gln Gly Trp
 195 200 205
 Met Met Val Asp Cys Thr Cys Leu Gly Glu Gly Ser Gly Arg Ile Thr
 210 215 220
 Cys Thr Ser Arg Asn Arg Cys Asn Asp Gln Asp Thr Arg Thr Ser Tyr
 225 230 235 240
 Arg Ile Gly Asp Thr Trp Ser Lys Lys Asp Asn Arg Gly Asn Leu Leu
 245 250 255
 Gln Cys Ile Cys Thr Gly Asn Gly Arg Gly Glu Trp Lys Cys Glu Arg
 260 265 270
 His Thr Ser Val Gln Thr Thr Ser Ser Gly Ser Gly Pro Phe Thr Asp
 275 280 285
 Val Arg Ala Ala Val Tyr Gln Pro Gln Pro His Pro Gln Pro Pro Pro
 290 295 300
 Tyr Gly His Cys Val Thr Asp Ser Gly Val Val Tyr Ser Val Gly Met
 305 310 315 320
 Gln Trp Leu Lys Thr Gln Gly Asn Lys Gln Met Leu Cys Thr Cys Leu
 325 330 335
 Gly Asn Gly Val Ser Cys Gln Glu Thr Ala Val Thr Gln Thr Tyr Gly
 340 345 350
 Gly Asn Ser Asn Gly Glu Pro Cys Val Leu Pro Phe Thr Tyr Asn Gly
 355 360 365
 Arg Thr Phe Tyr Ser Cys Thr Thr Glu Gly Arg Gln Asp Gly His Leu
 370 375 380
 Trp Cys Ser Thr Thr Ser Asn Tyr Glu Gln Asp Gln Lys Tyr Ser Phe
 385 390 395 400
 Cys Thr Asp His Thr Val Leu Val Gln Thr Arg Gly Gly Asn Ser Asn
 405 410 415
 Gly Ala Leu Cys His Phe Pro Phe Leu Tyr Asn Asn His Asn Tyr Thr
 420 425 430
 Asp Cys Thr Ser Glu Gly Arg Arg Asp Asn Met Lys Trp Cys Gly Thr
 435 440 445
 Thr Gln Asn Tyr Asp Ala Asp Gln Lys Phe Gly Phe Cys Pro Met Ala
 450 455 460
 Ala His Glu Glu Ile Cys Thr Thr Asn Glu Gly Val Met Tyr Arg Ile
 465 470 475 480
 Gly Asp Gln Trp Asp Lys Gln His Asp Met Gly His Met Met Arg Cys
 485 490 495
 Thr Cys Val Gly Asn Gly Arg Gly Glu Trp Thr Cys Ile Ala Tyr Ser
 500 505 510
 Gln Leu Arg Asp Gln Cys Ile Val Asp Asp Ile Thr Tyr Asn Val Asn
 515 520 525
 Asp Thr Phe His Lys Arg His Glu Glu Gly His Met Leu Asn Cys Thr
 530 535 540
 Cys Phe Gly Gln Gly Arg Gly Arg Trp Lys Cys Asp Pro Val Asp Gln
 545 550 555 560
 Cys Gln Asp Ser Glu Thr Gly Thr Phe Tyr Gln Ile Gly Asp Ser Trp
 565 570 575
 Glu Lys Tyr Val His Gly Val Arg Tyr Gln Cys Tyr Cys Tyr Gly Arg
 580 585 590
 Gly Ile Gly Glu Trp His Cys Gln Pro Leu Gln Thr Tyr Pro Ser Ser

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595	600	605
Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro Ser Gln Pro Asn		
610	615	620
Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His Ile Ser Lys		
625	630	635
Tyr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val Gly Arg Trp Lys Glu		
645	650	655
Ala Thr Ile Pro Gly His Leu Asn Ser Tyr Thr Ile Lys Gly Leu Lys		
660	665	670
Pro Gly Val Val Tyr Glu Gly Gln Leu Ile Ser Ile Gln Gln Tyr Gly		
675	680	685
His Gln Glu Val Thr Arg Phe Asp Phe Thr Thr Ser Thr Ser Thr		
690	695	700
Pro Val Thr Ser Asn Thr Val Thr Gly Glu Thr Thr Pro Phe Ser Pro		
705	710	715
Leu Val Ala Thr Ser Glu Ser Val Thr Glu Ile Thr Ala Ser Ser Phe		
725	730	735
Val Val Ser Trp Val Ser Ala Ser Asp Thr Val Ser Gly Phe Arg Val		
740	745	750
Glu Tyr Glu Leu Ser Glu Glu Gly Asp Glu Pro Gln Tyr Leu Asp Leu		
755	760	765
Pro Ser Thr Ala Thr Ser Val Asn Ile Pro Asp Leu Leu Pro Gly Arg		
770	775	780
Lys Tyr Ile Val Asn Val Tyr Gln Ile Ser Glu Asp Gly Glu Gln Ser		
785	790	795
Leu Ile Leu Ser Thr Ser Gln Thr Thr Ala Pro Asp Ala Pro Pro Asp		
805	810	815
Thr Thr Val Asp Gln Val Asp Asp Thr Ser Ile Val Val Arg Trp Ser		
820	825	830
Arg Pro Gln Ala Pro Ile Thr Gly Tyr Arg Ile Val Tyr Ser Pro Ser		
835	840	845
Val Glu Gly Ser Ser Thr Glu Leu Asn Leu Pro Glu Thr Ala Asn Ser		
850	855	860
Val Thr Leu Ser Asp Leu Gln Pro Gly Val Gln Tyr Asn Ile Thr Ile		
865	870	875
Tyr Ala Val Glu Glu Asn Gln Glu Ser Thr Pro Val Val Ile Gln Gln		
885	890	895
Glu Thr Thr Gly Thr Pro Arg Ser Asp Thr Val Pro Ser Pro Arg Asp		
900	905	910
Leu Gln Phe Val Glu Val Thr Asp Val Lys Val Thr Ile Met Trp Thr		
915	920	925
Pro Pro Glu Ser Ala Val Thr Gly Tyr Arg Val Asp Val Ile Pro Val		
930	935	940
Asn Leu Pro Gly Glu His Gly Gln Arg Leu Pro Ile Ser Arg Asn Thr		
945	950	955
Phe Ala Glu Val Thr Gly Leu Ser Pro Gly Val Thr Tyr Tyr Phe Lys		
965	970	975
Val Phe Ala Val Ser His Gly Arg Glu Ser Lys Pro Leu Thr Ala Gln		
980	985	990
Gln Thr Thr Lys Leu Asp Ala Pro Thr Asn Leu Gln Phe Val Asn Glu		
995	1000	1005
Thr Asp Ser Thr Val Leu Val Arg Trp Thr Pro Pro Arg Ala Gln Ile		
1010	1015	1020
Thr Gly Tyr Arg Leu Thr Val Gly Leu Thr Arg Arg Gly Gln Pro Arg		
1025	1030	1035
Gln Tyr Asn Val Gly Pro Ser Val Ser Lys Tyr Pro Leu Arg Asn Leu		
1045	1050	1055
Gln Pro Ala Ser Glu Tyr Thr Val Ser Leu Val Ala Ile Lys Gly Asn		
1060	1065	1070
Gln Glu Ser Pro Lys Ala Thr Gly Val Phe Thr Thr Leu Gln Pro Gly		
1075	1080	1085
Ser Ser Ile Pro Pro Tyr Asn Thr Glu Val Thr Glu Thr Thr Ile Val		
1090	1095	1100

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Ile Thr Trp Thr Pro Ala Pro Arg Ile Gly Phe Lys Leu Gly Val Arg
 1105 1110 1115 1120
 Pro Ser Gln Gly Gly Glu Ala Pro Arg Glu Val Thr Ser Asp Ser Gly
 1125 1130 1135
 Ser Ile Val Val Ser Gly Leu Thr Pro Gly Val Glu Tyr Val Tyr Thr
 1140 1145 1150
 Ile Gln Val Leu Arg Asp Gly Gln Glu Arg Asp Ala Pro Ile Val Asn
 1155 1160 1165
 Lys Val Val Thr Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala
 1170 1175 1180
 Asn Pro Asp Thr Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr
 1185 1190 1195 1200
 Pro Asp Ile Thr Gly Tyr Arg Ile Thr Thr Pro Thr Asn Gly Gln
 1205 1210 1215
 Gln Gly Asn Ser Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys
 1220 1225 1230
 Thr Phe Asp Asn Leu Ser Pro Gly Leu Glu Tyr Asn Val Ser Val Tyr
 1235 1240 1245
 Thr Val Lys Asp Asp Lys Glu Ser Val Pro Ile Ser Asp Thr Ile Ile
 1250 1255 1260
 Pro Ala Val Pro Pro Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro
 1265 1270 1275 1280
 Asp Thr Met Arg Val Thr Trp Ala Pro Pro Ser Ile Asp Leu Thr
 1285 1290 1295
 Asn Phe Leu Val Arg Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala
 1300 1305 1310
 Glu Leu Ser Ile Ser Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu
 1315 1320 1325
 Leu Pro Gly Thr Glu Tyr Val Val Ser Val Ser Val Tyr Glu Gln
 1330 1335 1340
 His Glu Ser Thr Pro Leu Arg Gly Arg Gln Lys Thr Gly Leu Asp Ser
 1345 1350 1355 1360
 Pro Thr Gly Ile Asp Phe Ser Asp Ile Thr Ala Asn Ser Phe Thr Val
 1365 1370 1375
 His Trp Ile Ala Pro Arg Ala Thr Ile Thr Gly Tyr Arg Ile Arg His
 1380 1385 1390
 His Pro Glu His Phe Ser Gly Arg Pro Arg Glu Asp Arg Val Pro His
 1395 1400 1405
 Ser Arg Asn Ser Ile Thr Leu Thr Asn Leu Thr Pro Gly Thr Glu Tyr
 1410 1415 1420
 Val Val Ser Ile Val Ala Leu Asn Gly Arg Glu Glu Ser Pro Leu Leu
 1425 1430 1435 1440
 Ile Gly Gln Gln Ser Thr Val Ser Asp Val Pro Arg Asp Leu Glu Val
 1445 1450 1455
 Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala
 1460 1465 1470
 Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn
 1475 1480 1485
 Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr
 1490 1495 1500
 Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala
 1505 1510 1515 1520
 Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile
 1525 1530 1535
 Asn Tyr Arg Thr Glu Ile Asp Lys Pro Ser Gln Met Gln Val Thr Asp
 1540 1545 1550
 Val Gln Asp Asn Ser Ile Ser Val Lys Trp Leu Pro Ser Ser Ser Pro
 1555 1560 1565
 Val Thr Gly Tyr Arg Val Thr Thr Thr Pro Lys Asn Gly Pro Gly Pro
 1570 1575 1580
 Thr Lys Thr Lys Thr Ala Gly Pro Asp Gln Thr Glu Met Thr Ile Glu
 1585 1590 1595 1600
 Gly Leu Gln Pro Thr Val Glu Tyr Val Val Ser Val Tyr Ala Gln Asn

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1605	1610	1615
Pro Ser Gly Glu Ser Gln Pro Leu Val Gln Thr Ala Val Thr Asn Ile		
1620	1625	1630
Asp Arg Pro Lys Gly Leu Ala Phe Thr Asp Val Asp Val Asp Ser Ile		
1635	1640	1645
Lys Ile Ala Trp Glu Ser Pro Gln Gly Gln val Ser Arg Tyr Arg Val		
1650	1655	1660
Thr Tyr Ser Ser Pro Glu Asp Gly Ile His Glu Leu Phe Pro Ala Pro		
1665	1670	1675
Asp Gly Glu Glu Asp Thr Ala Glu Leu Gln Gly Leu Arg Pro Gly Ser		
1685	1690	1695
Glu Tyr Thr Val Ser Val val Ala Leu His Asp Asp Met Glu Ser Gln		
1700	1705	1710
Pro Leu Ile Gly Thr Gln Ser Thr Ala Ile Pro Ala Pro Thr Asp Leu		
1715	1720	1725
Lys Phe Thr Gln val Thr Pro Thr Ser Leu Ser Ala Gln Trp Thr Pro		
1730	1735	1740
Pro Asn Val Gln Leu Thr Gly Tyr Arg Val Arg Val Thr Pro Lys Glu		
1745	1750	1755
Lys Thr Gly Pro Met Lys Glu Ile Asn Leu Ala Pro Asp Ser Ser Ser		
1765	1770	1775
Val val val Ser Gly Leu Met Val Ala Thr Lys Tyr Glu Val Ser Val		
1780	1785	1790
Tyr Ala Leu Lys Asp Thr Leu Thr Ser Arg Pro Ala Gln Gly Val Val		
1795	1800	1805
Thr Thr Leu Glu Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp		
1810	1815	1820
Ala Thr Glu Thr Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr		
1825	1830	1835
Ile Thr Gly Phe Gln Val Asp Ala Val Pro Ala Asn Gly Gln Thr Pro		
1845	1850	1855
Ile Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly		
1860	1865	1870
Leu Gln Pro Gly Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp		
1875	1880	1885
Asn Ala Arg Ser Ser Pro Val Val Ile Asp Ala Ser Thr Ala Ile Asp		
1890	1895	1900
Ala Pro Ser Asn Leu Arg Phe Leu Ala Thr Thr Pro Asn Ser Leu Leu		
1905	1910	1915
Val Ser Trp Gln Pro Pro Arg Ala Arg Ile Thr Gly Tyr Ile Ile Lys		
1920	1925	1930
Tyr Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro Arg Pro Arg		
1940	1945	1950
Pro Gly Val Thr Glu Ala Thr Ile Thr Gly Leu Glu Pro Gly Thr Glu		
1955	1960	1965
Tyr Thr Ile Tyr Val Ile Ala Leu Lys Asn Asn Gln Lys Ser Glu Pro		
1970	1975	1980
Leu Ile Gly Arg Lys Lys Thr Asp Glu Leu Pro Gln Leu Val Thr Leu		
1985	1990	1995
2000		
Pro His Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro Ser Thr		
2005	2010	2015
Val Gln Lys Thr Pro Phe Val Thr His Pro Gly Tyr Asp Thr Gly Asn		
2020	2025	2030
Gly Ile Gln Leu Pro Gly Thr Ser Gly Gln Gln Pro Ser Val Gly Gln		
2035	2040	2045
Gln Met Ile Phe Glu Glu His Gly Phe Arg Arg Thr Thr Pro Pro Thr		
2050	2055	2060
Thr Ala Thr Pro Ile Arg His Arg Pro Arg Pro Tyr Pro Pro Asn Val		
2065	2070	2075
Gly Glu Glu Ile Gln Ile Gly His Ile Pro Arg Glu Asp Val Asp Tyr		
2085	2090	2095
His Leu Tyr Pro His Gly Pro Gly Leu Asn Pro Asn Ala Ser Thr Gly		
2100	2105	2110

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Gln Glu Ala Leu Ser Gln Thr Thr Ile Ser Trp Ala Pro Phe Gln Asp
 2115 2120 2125
 Thr Ser Glu Tyr Ile Ile Ser Cys His Pro Val Gly Thr Asp Glu Glu
 2130 2135 2140
 Pro Leu Gln Phe Arg Val Pro Gly Thr Ser Thr Ser Ala Thr Leu Thr
 2145 2150 2155 2160
 Gly Leu Thr Arg Gly Ala Thr Tyr Asn Val Ile Val Glu Ala Leu Lys
 2165 2170 2175
 Asp Gln Gln Arg His Lys Val Arg Glu Glu Val Val Thr Val Gly Asn
 2180 2185 2190
 Ser Val Asn Glu Gly Leu Asn Gln Pro Thr Asp Asp Ser Cys Phe Asp
 2195 2200 2205
 Pro Tyr Thr Val Ser His Tyr Ala Val Gly Asp Glu Trp Glu Arg Met
 2210 2215 2220
 Ser Glu Ser Gly Phe Lys Leu Leu Cys Gln Cys Leu Gly Phe Gly Ser
 2225 2230 2235 2240
 Gly His Phe Arg Cys Asp Ser Ser Arg Trp Cys His Asp Asn Gly Val
 2245 2250 2255
 Asn Tyr Lys Ile Gly Glu Lys Trp Asp Arg Gln Gly Glu Asn Gly Gln
 2260 2265 2270
 Met Met Ser Cys Thr Cys Leu Gly Asn Gly Lys Gly Glu Phe Lys Cys
 2275 2280 2285
 Asp Pro His Glu Ala Thr Cys Tyr Asp Asp Gly Lys Thr Tyr His Val
 2290 2295 2300
 Gly Glu Gln Trp Gln Lys Glu Tyr Leu Gly Ala Ile Cys Ser Cys Thr
 2305 2310 2315 2320
 Cys Phe Gly Gly Gln Arg Gly Trp Arg Cys Asp Asn Cys Arg Arg Pro
 2325 2330 2335
 Gly Gly Glu Pro Ser Pro Glu Gly Thr Thr Gly Gln Ser Tyr Asn Gln
 2340 2345 2350
 Tyr Ser Gln Arg Tyr His Gln Arg Thr Asn Thr Asn Val Asn Cys Pro
 2355 2360 2365
 Ile Glu Cys Phe Met Pro Leu Asp Val Gln Ala Asp Arg Glu Asp Ser
 2370 2375 2380
 Arg Glu
 2385

<210> 33

<211> 953

<212> PRT

<213> Homo sapiens

<400> 33

Arg Tyr Asn Lys Asn Leu Glu Glu Ala Lys Arg Ile Gly Ile Lys Lys
 1 5 10 15
 Ala Ile Thr Ala Asn Ile Ser Ile Gly Ala Ala Phe Leu Leu Ile Tyr
 20 25 30
 Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Thr Thr Leu Val Leu Ser
 35 40 45
 Gly Glu Tyr Ser Ile Gly Gln Val Leu Thr Val Phe Phe Ser Val Leu
 50 55 60
 Ile Gly Ala Phe Ser Val Gly Gln Ala Ser Pro Ser Ile Glu Ala Phe
 65 70 75 80
 Ala Asn Ala Arg Gly Ala Ala Tyr Glu Ile Phe Lys Ile Ile Asp Asn
 85 90 95
 Lys Pro Ser Ile Asp Ser Tyr Ser Lys Ser Gly His Lys Pro Asp Asn
 100 105 110
 Ile Lys Gly Asn Leu Glu Phe Arg Asn Val His Phe Ser Tyr Pro Ser
 115 120 125
 Arg Lys Glu Val Lys Ile Leu Lys Gly Leu Asn Leu Lys Val Gln Ser
 130 135 140
 Gly Gln Thr Val Ala Leu Val Gly Asn Ser Gly Cys Gly Lys Ser Thr
 145 150 155 160

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Thr Val Gln Leu Met Gln Arg Leu Tyr Asp Pro Thr Glu Gly Met Val
 165 170 175
 Ser Val Asp Gly Gln Asp Ile Arg Thr Ile Asn Val Arg Phe Leu Arg
 180 185 190
 Glu Ile Ile Gly Val Val Ser Gln Glu Pro Val Leu Phe Ala Thr Thr
 195 200 205
 Ile Ala Glu Asn Ile Arg Tyr Gly Arg Glu Asn Val Thr Met Asp Glu
 210 215 220
 Ile Glu Lys Ala Val Lys Glu Ala Asn Ala Tyr Asp Phe Ile Met Lys
 225 230 235 240
 Leu Pro His Lys Phe Asp Thr Leu Val Gly Glu Arg Gly Ala Gln Leu
 245 250 255
 Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile Ala Arg Ala Leu Val Arg
 260 265 270
 Asn Pro Lys Ile Leu Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp Thr
 275 280 285
 Glu Ser Glu Ala Val Val Gln Val Ala Leu Asp Lys Ala Arg Lys Gly
 290 295 300
 Arg Thr Thr Ile Val Ile Ala His Arg Leu Ser Thr Val Arg Asn Ala
 305 310 315 320
 Asp Val Ile Ala Gly Phe Asp Asp Gly Val Ile Val Glu Lys Gly Asn
 325 330 335
 His Asp Glu Leu Met Lys Glu Lys Gly Ile Tyr Phe Lys Leu Val Thr
 340 345 350
 Met Gln Asp Glu Ser Ile Pro Pro Val Ser Phe Trp Arg Ile Met Lys
 355 360 365
 Leu Asn Leu Thr Glu Trp Pro Tyr Phe Val Val Gly Val Phe Cys Ala
 370 375 380
 Ile Ile Asn Gly Gly Leu Gln Pro Ala Phe Ala Ile Ile Phe Ser Lys
 385 390 395 400
 Ile Ile Gly Val Phe Thr Arg Ile Asp Asp Pro Glu Thr Lys Arg Gln
 405 410 415
 Asn Ser Asn Leu Phe Ser Leu Leu Phe Leu Ala Leu Gly Ile Ile Ser
 420 425 430
 Phe Ile Thr Phe Phe Leu Gln Gly Phe Thr Phe Gly Lys Ala Gly Glu
 435 440 445
 Ile Leu Thr Lys Arg Leu Arg Tyr Met Val Phe Arg Ser Met Leu Arg
 450 455 460
 Gln Asp Val Ser Trp Phe Asp Asp Pro Lys Asn Thr Thr Gly Ala Leu
 465 470 475 480
 Thr Thr Arg Leu Ala Asn Asp Ala Ala Gln Val Lys Gly Ala Ile Gly
 485 490 495
 Ser Arg Leu Ala Val Ile Thr Gln Asn Ile Ala Asn Leu Gly Thr Gly
 500 505 510
 Ile Ile Ile Ser Phe Ile Tyr Gly Trp Gln Leu Thr Leu Leu Leu
 515 520 525
 Ala Ile Val Pro Ile Ile Ala Ile Ala Gly Val Val Glu Met Lys Met
 530 535 540
 Leu Ser Gly Gln Ala Leu Lys Asp Lys Lys Glu Leu Glu Gly Ser Gly
 545 550 555 560
 Lys Ile Ala Thr Glu Ala Ile Glu Asn Phe Arg Thr Val Val Ser Leu
 565 570 575
 Thr Gln Glu Gln Lys Phe Glu His Met Tyr Ala Gln Ser Leu Gln Val
 580 585 590
 Pro Tyr Arg Asn Ser Leu Arg Lys Ala His Ile Phe Gly Ile Thr Phe
 595 600 605
 Ser Phe Thr Gln Ala Met Met Tyr Phe Ser Tyr Ala Gly Cys Phe Arg
 610 615 620
 Phe Gly Ala Tyr Leu Val Ala His Lys Leu Met Ser Phe Glu Asp Val
 625 630 635 640
 Leu Leu Val Phe Ser Ala Val Val Phe Gly Ala Met Ala Val Gly Gln
 645 650 655
 Val Ser Ser Phe Ala Pro Asp Tyr Ala Lys Ala Lys Ile Ser Ala Ala

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660	665	670
His Ile Ile Met Ile Ile Glu Lys	Thr Pro Leu Ile Asp	Ser Tyr Ser
675 680	685	
Thr Glu Gly Leu Met Pro Asn	Thr Leu Glu Gly Asn	Val Thr Phe Gly
690 695	700	
Glu Val Val Phe Asn Tyr	Pro Thr Arg Pro Asp	Ile Pro Val Leu Gln
705 710	715	720
Gly Leu Ser Leu Glu Val Lys	Lys Gly Gln	Thr Leu Ala Leu Val Gly
725 730	735	
Ser Ser Gly Cys Gly Lys Ser	Thr Val Val Gln	Leu Leu Glu Arg Phe
740 745	750	
Tyr Asp Pro Leu Ala Gly Lys	Val Leu Ile Cys Glu	Leu Phe Gln Leu
755 760	765	
Leu Asp Gly Lys Glu Ile Lys	Arg Leu Asn Val	Gln Trp Leu Arg Ala
770 775	780	
His Leu Gly Ile Val Ser	Gln Glu Pro Ile	Leu Phe Asp Cys Ser Ile
785 790	795	800
Ala Glu Asn Ile Ala Tyr	Gly Asp Asn Ser	Arg Val Val Ser Gln Glu
805 810	815	
Glu Ile Val Arg Ala Ala Lys	Glu Ala Asn Ile	His Ala Phe Ile Glu
820 825	830	
Ser Leu Pro Asn Lys Tyr	Ser Thr Lys Val	Gly Asp Lys Gly Thr Gln
835 840	845	
Leu Ser Gly Gly Gln Lys	Gln Arg Ile Ala Ile	Ala Arg Ala Leu Val
850 855	860	
Arg Gln Pro His Ile Leu	Leu Leu Asp Glu	Ala Thr Ser Ala Leu Asp
865 870	875	880
Thr Glu Ser Glu Lys Val	Val Val Gln	Glu Ala Leu Asp Lys Ala Arg Glu
885 890	895	
Gly Arg Thr Cys Ile Val	Ile Ala His Arg	Leu Ser Thr Ile Gln Asn
900 905	910	
Ala Asp Leu Ile Val Val	Phe Gln Asn	Gly Arg Val Lys Glu His Gly
915 920	925	
Thr His Gln Gln Leu Leu	Ala Gln Lys	Gly Ile Tyr Phe Ser Met Val
930 935	940	
Ser Val Gln Ala Gly Thr	Lys Arg Gln	
945 950		

<210> 34

<211> 1537

<212> PRT

<213> Homo sapiens

<400> 34

Met Ser Leu Ser Phe Cys Gly Asn Asn	Ile Ser Ser Tyr Asn	Ile Asn
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Asp Gly Val Leu Gln Asn Ser Cys	Phe Val Asp Ala Leu Asn	Leu Val
20 25	30	
Pro His Val Phe Leu Leu Phe	Ile Thr Phe Pro Ile	Leu Phe Ile Gly
35 40	45	
Trp Gly Ser Gln Ser Ser Lys	Val Gln Ile His His	Asn Thr Trp Leu
50 55	60	
His Phe Pro Gly His Asn Leu Arg	Trp Ile Leu Thr Phe	Ala Leu Leu
65 70	75	80
Phe Val His Val Cys Glu	Ile Ala Glu Gly	Ile Val Ser Asp Ser Arg
85 90	95	
Arg Glu Ser Arg His Leu His	Leu Phe Met Pro Ala Val	Met Gly Phe
100 105	110	
Val Ala Thr Thr Thr Ser	Ile Val Tyr Tyr His Asn	Ile Glu Thr Ser
115 120	125	
Asn Phe Pro Lys Leu Leu Ala	Leu Phe Leu Tyr	Trp Val Met Ala
130 135	140	
Phe Ile Thr Lys Thr Ile Lys	Leu Val Lys Tyr Cys	Gln Ser Gly Leu

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145	150	155	160												
Asp	Ile	Ser	Asn	Leu	Arg	Phe	Cys	Ile	Thr	Gly	Met	Met	Val	Ile	Leu
				165		170					175				
Asn	Gly	Leu	Leu	Met	Ala	Val	Glu	Ile	Asn	Val	Ile	Arg	Val	Arg	Arg
				180		185					190				
Tyr	Val	Phe	Phe	Met	Asn	Pro	Gln	Lys	Val	Lys	Pro	Pro	Glu	Asp	Leu
				195		200					205				
Gln	Asp	Leu	Gly	Val	Arg	Phe	Leu	Gln	Pro	Phe	Val	Asn	Leu	Leu	Ser
				210		215					220				
Lys	Ala	Thr	Tyr	Trp	Trp	Met	Asn	Thr	Leu	Ile	Ile	Ser	Ala	His	Lys
				225		230				235				240	
Lys	Pro	Ile	Asp	Leu	Lys	Ala	Ile	Gly	Lys	Leu	Pro	Ile	Ala	Met	Arg
				245				250					255		
Ala	Val	Thr	Asn	Tyr	Val	Cys	Leu	Lys	Asp	Ala	Tyr	Glu	Glu	Gln	Lys
				260			265					270			
Lys	Lys	Val	Ala	Asp	His	Pro	Asn	Arg	Thr	Pro	Ser	Ile	Trp	Leu	Ala
				275			280				285				
Met	Tyr	Arg	Ala	Phe	Gly	Arg	Pro	Ile	Leu	Leu	Ser	Ser	Thr	Phe	Arg
				290		295					300				
Tyr	Leu	Ala	Asp	Leu	Leu	Gly	Phe	Ala	Gly	Pro	Leu	Cys	Ile	Ser	Gly
				305		310				315				320	
Ile	Val	Gln	Arg	Val	Asn	Glu	Thr	Gln	Asn	Gly	Thr	Asn	Asn	Thr	Thr
				325				330					335		
Gly	Ile	Ser	Glu	Thr	Leu	Ser	Ser	Lys	Glu	Phe	Leu	Glu	Asn	Ala	Tyr
				340			345					350			
Val	Leu	Ala	Val	Leu	Leu	Phe	Leu	Ala	Leu	Ile	Leu	Gln	Arg	Thr	Phe
				355			360				365				
Leu	Gln	Ala	Ser	Tyr	Tyr	Val	Thr	Ile	Glu	Thr	Gly	Ile	Asn	Leu	Arg
				370			375				380				
Gly	Ala	Leu	Leu	Ala	Met	Ile	Tyr	Asn	Lys	Ile	Leu	Arg	Leu	Ser	Thr
				385			390			395				400	
Ser	Asn	Leu	Ser	Met	Gly	Glu	Met	Thr	Leu	Gly	Gln	Ile	Asn	Asn	Leu
				405			410					415			
Val	Ala	Ile	Glu	Thr	Asn	Gln	Leu	Met	Trp	Phe	Leu	Phe	Leu	Cys	Pro
				420			425				430				
Asn	Leu	Trp	Ala	Met	Pro	Val	Gln	Ile	Ile	Met	Gly	Val	Ile	Leu	Leu
				435			440				445				
Tyr	Asn	Leu	Leu	Gly	Ser	Ser	Ala	Leu	Val	Gly	Ala	Ala	Val	Ile	Val
				450			455				460				
Leu	Leu	Ala	Pro	Ile	Gln	Tyr	Phe	Ile	Ala	Thr	Lys	Leu	Ala	Glu	Ala
				465			470			475				480	
Gln	Lys	Ser	Thr	Leu	Asp	Tyr	Ser	Thr	Glu	Arg	Leu	Lys	Lys	Thr	Asn
				485			490					495			
Glu	Ile	Leu	Lys	Gly	Ile	Lys	Leu	Leu	Lys	Leu	Tyr	Ala	Trp	Glu	His
				500			505					510			
Ile	Phe	Cys	Lys	Ser	Val	Glu	Glu	Thr	Arg	Met	Lys	Glu	Leu	Ser	Ser
				515			520				525				
Leu	Lys	Thr	Phe	Ala	Leu	Tyr	Thr	Ser	Leu	Ser	Ser	Lys	Leu	Leu	Thr
				530			535				540				
Pro	Phe	Phe	Ala	Gln	Thr	Phe	Val	Thr	His	Ala	Tyr	Ala	Ser	Gly	Asn
				545			550			555				560	
Asn	Leu	Lys	Pro	Ala	Glu	Ala	Phe	Ala	Ser	Leu	Ser	Leu	Phe	His	Ile
				565			570					575			
Leu	Val	Thr	Pro	Leu	Phe	Leu	Leu	Ser	Thr	Val	Val	Arg	Phe	Ala	Val
				580			585					590			
Lys	Ala	Ile	Ile	Ser	Val	Gln	Lys	Leu	Asn	Glu	Phe	Leu	Leu	Ser	Asp
				595			600				605				
Glu	Ile	Gly	Asp	Asp	Ser	Trp	Arg	Thr	Gly	Glu	Ser	Ser	Leu	Pro	Phe
				610			615				620				
Glu	Ser	Cys	Lys	Lys	His	Thr	Gly	Val	Gln	Pro	Lys	Thr	Ile	Asn	Arg
				625			630			635				640	
Lys	Gln	Pro	Gly	Arg	Tyr	His	Leu	Asp	Ser	Tyr	Glu	Gln	Ser	Thr	Arg
				645			650				655				

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Arg Leu Arg Pro Ala Glu Thr Glu Asp Ile Ala Ile Lys Val Thr Asn
 660 665 670
 Gly Tyr Phe Ser Trp Gly Ser Gly Leu Ala Thr Leu Ser Asn Ile Asp
 675 680 685
 Ile Arg Ile Pro Thr Gly Gln Leu Thr Met Ile Val Gly Gln Val Gly
 690 695 700
 Cys Gly Lys Ser Ser Leu Leu Leu Ala Ile Leu Gly Glu Met Gln Thr
 705 710 715 720
 Leu Glu Gly Lys Val His Trp Ser Lys Tyr Val Tyr Phe Tyr Arg Asn
 725 730 735
 Arg Tyr Ser Val Ala Tyr Ala Ala Gln Lys Pro Trp Leu Leu Asn Ala
 740 745 750
 Thr Val Glu Glu Asn Ile Thr Phe Gly Ser Pro Phe Asn Lys Gln Arg
 755 760 765
 Tyr Lys Ala Val Thr Asp Ala Cys Ser Leu Gln Pro Asp Ile Asp Leu
 770 775 780
 Leu Pro Phe Gly Asp Gln Thr Glu Ile Gly Glu Arg Gly Ile Asn Leu
 785 790 795 800
 Ser Gly Gly Gln Arg Gln Arg Ile Cys Val Ala Arg Ala Leu Tyr Gln
 805 810 815
 Asn Thr Asn Ile Val Phe Leu Asp Asp Pro Phe Ser Ala Leu Asp Ile
 820 825 830
 His Leu Ser Asp His Leu Met Gln Glu Gly Ile Leu Lys Phe Leu Gln
 835 840 845
 Asp Asp Lys Arg Thr Leu Val Leu Val Thr His Lys Leu Gln Tyr Leu
 850 855 860
 Thr His Ala Asp Trp Ile Ile Ala Met Lys Asp Gly Ser Val Leu Arg
 865 870 875 880
 Glu Gly Thr Leu Lys Asp Ile Gln Thr Lys Asp Val Glu Leu Tyr Glu
 885 890 895
 His Trp Lys Thr Leu Met Asn Arg Gln Asp Gln Glu Leu Glu Lys Asp
 900 905 910
 Met Glu Ala Asp Gln Thr Thr Leu Glu Arg Lys Thr Leu Arg Arg Ala
 915 920 925
 Met Tyr Ser Arg Glu Ala Lys Ala Gln Met Glu Asp Glu Asp Glu Glu
 930 935 940
 Glu Glu Glu Glu Asp Glu Asp Asp Asn Met Ser Thr Val Met Arg
 945 950 955 960
 Leu Arg Thr Lys Met Pro Trp Lys Thr Cys Trp Arg Tyr Leu Thr Ser
 965 970 975
 Gly Gly Phe Phe Leu Leu Ile Leu Met Ile Phe Ser Lys Leu Leu Lys
 980 985 990
 His Ser Val Ile Val Ala Ile Asp Tyr Trp Leu Ala Thr Trp Thr Ser
 995 1000 1005
 Glu Tyr Ser Ile Asn Asn Thr Gly Lys Ala Asp Gln Thr Tyr Tyr Val
 1010 1015 1020
 Ala Gly Phe Ser Ile Leu Cys Gly Ala Gly Ile Phe Leu Cys Leu Val
 1025 1030 1035 1040
 Thr Ser Leu Thr Val Glu Trp Met Gly Leu Thr Ala Ala Lys Asn Leu
 1045 1050 1055
 His His Asn Leu Leu Asn Lys Ile Ile Leu Gly Pro Ile Arg Phe Phe
 1060 1065 1070
 Asp Thr Thr Pro Leu Gly Leu Ile Leu Asn Arg Phe Ser Ala Asp Thr
 1075 1080 1085
 Asn Ile Ile Asp Gln His Ile Pro Pro Thr Leu Glu Ser Leu Thr Arg
 1090 1095 1100
 Ser Thr Leu Leu Cys Leu Ser Ala Ile Gly Met Ile Ser Tyr Ala Thr
 1105 1110 1115 1120
 Pro Val Phe Leu Val Ala Leu Leu Pro Leu Gly Val Ala Phe Tyr Phe
 1125 1130 1135
 Ile Gln Lys Tyr Phe Arg Val Ala Ser Lys Asp Leu Gln Glu Leu Asp
 1140 1145 1150
 Asp Ser Thr Gln Leu Pro Leu Leu Cys His Phe Ser Glu Thr Ala Glu

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Gly Leu Thr Thr Ile Arg Ala Phe Arg His Glu Thr Arg Phe Lys Gln
 1155 1160 1165
 1170 1175 1180
 Arg Met Leu Glu Leu Thr Asp Thr Asn Asn Ile Ala Tyr Leu Phe Leu
 1185 1190 1195 1200
 Ser Ala Ala Asn Arg Trp Leu Glu Val Arg Thr Asp Tyr Leu Gly Ala
 1205 1210 1215
 Cys Ile Val Leu Thr Ala Ser Ile Ala Ser Ile Ser Gly Ser Ser Asn
 1220 1225 1230
 Ser Gly Leu Val Gly Leu Gly Leu Leu Tyr Ala Leu Thr Ile Thr Asn
 1235 1240 1245
 Tyr Leu Asn Trp Val Val Arg Asn Leu Ala Asp Leu Glu Val Gln Met
 1250 1255 1260
 Gly Ala Val Lys Lys Val Asn Ser Phe Leu Thr Met Glu Ser Glu Asn
 1265 1270 1275 1280
 Tyr Glu Gly Thr Met Asp Pro Ser Gln Val Pro Glu His Trp Pro Gln
 1285 1290 1295
 Glu Gly Glu Ile Lys Ile His Asp Leu Cys Val Arg Tyr Glu Asn Asn
 1300 1305 1310
 Leu Lys Pro Val Leu Lys His Val Lys Ala Tyr Ile Lys Pro Gly Gln
 1315 1320 1325
 Lys Val Gly Ile Cys Gly Arg Thr Gly Ser Gly Lys Ser Ser Leu Ser
 1330 1335 1340
 Leu Ala Phe Phe Arg Met Val Asp Ile Phe Asp Gly Lys Ile Val Ile
 1345 1350 1355 1360
 Asp Gly Ile Asp Ile Ser Lys Leu Pro Leu His Thr Leu Arg Ser Arg
 1365 1370 1375
 Leu Ser Ile Ile Leu Gln Asp Pro Ile Leu Phe Ser Gly Ser Ile Arg
 1380 1385 1390
 Phe Asn Leu Asp Pro Glu Cys Lys Cys Thr Asp Asp Arg Leu Trp Glu
 1395 1400 1405
 Ala Leu Glu Ile Ala Gln Leu Lys Asn Met Val Lys Ser Leu Pro Gly
 1410 1415 1420
 Gly Leu Asp Ala Val Val Thr Glu Gly Gly Glu Asn Phe Ser Val Gly
 1425 1430 1435 1440
 Gln Arg Gln Leu Phe Cys Leu Ala Arg Ala Phe Val Arg Lys Ser Ser
 1445 1450 1455
 Ile Leu Ile Met Asp Glu Ala Thr Ala Ser Ile Asp Met Ala Thr Glu
 1460 1465 1470
 Asn Ile Leu Gln Lys Val Val Met Thr Ala Phe Ala Asp Arg Thr Val
 1475 1480 1485
 Val Thr Ile Ala His Arg Val His Thr Ile Leu Thr Ala Asp Leu Val
 1490 1495 1500
 Ile Val Met Lys Arg Gly Asn Ile Leu Glu Tyr Asp Thr Pro Glu Ser
 1505 1510 1515 1520
 Leu Leu Ala Gln Glu Asn Gly Val Phe Ala Ser Phe Val Arg Ala Asp
 1525 1530 1535
 Met

<210> 35
 <211> 676
 <212> PRT
 <213> Homo sapiens

<400> 35
 Arg Ala Glu Leu Val Ala Leu Thr Ala Val Gln Ser Glu Gln Gly Glu
 1 5 10 15
 Ala Gly Gly Gly Ser Pro Arg Arg Leu Gly Leu Leu Gly Ser Pro
 20 25 30
 Leu Pro Pro Gly Ala Pro Leu Pro Gly Pro Gly Ser Gly Ser Gly Ser
 35 40 45
 Ala Cys Gly Gln Arg Ser Ser Ala Ala His Lys Arg Tyr Arg Arg Leu

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50	55	60	
Gln Asn Trp Gly Tyr Asn Val	Leu Glu Arg Pro Arg Gly	Trp Ala Phe	
65	70	75	
Val Tyr His Val Phe Ile Phe	Leu Leu Val Phe Ser Cys	Leu Cys	
85	90	95	
Ser Val Leu Ser Thr Ile Gln	Glu His Gln Glu Leu Ala	Asn Glu Cys	
100	105	110	
Leu Leu Ile Leu Glu Phe Val	Met Ile Val Val Phe	Gly Leu Glu Tyr	
115	120	125	
Ile Val Arg Val Trp Ser Ala	Gly Cys Cys Arg Tyr	Arg Gly Trp	
130	135	140	
Gln Gly Arg Phe Arg Phe Ala	Arg Lys Pro Phe Cys	Val Ile Asp Phe	
145	150	155	160
Ile Val Phe Val Ala Ser Val	Ala Val Ile Ala Ala	Gly Thr Gln Gly	
165	170	175	
Asn Ile Phe Ala Thr Ser Ala	Leu Arg Ser Met Arg	Phe Leu Gln Ile	
180	185	190	
Leu Arg Met Val Arg Met Asp	Arg Arg Gly Gly	Thr Trp Lys Leu Leu	
195	200	205	
Gly Ser Val Val Tyr Ala His	Ser Lys Glu Leu Ile	Thr Ala Trp Tyr	
210	215	220	
Ile Gly Phe Leu Val Leu Ile	Phe Ala Ser Phe Leu	Val Tyr Leu Ala	
225	230	235	240
Glu Lys Asp Ala Asn Ser Asp	Phe Ser Ser Tyr Ala	Asp Ser Leu Trp	
245	250	255	
Trp Gly Thr Ile Thr Leu Thr	Ile Gly Tyr Gly Asp	Lys Thr Pro	
260	265	270	
His Thr Trp Leu Gly Arg Val	Leu Ala Ala Gly Phe	Ala Leu Leu Gly	
275	280	285	
Ile Ser Phe Phe Ala Leu Pro	Ala Gly Ile Leu Gly	Ser Gly Phe Ala	
290	295	300	
Leu Lys Val Gln Glu Gln His	Arg Gln Lys His Phe	Glu Lys Arg Arg	
305	310	315	320
Met Pro Ala Ala Asn Leu Ile	Gln Ala Ala Trp Arg	Leu Tyr Ser Thr	
325	330	335	
Asp Met Ser Arg Ala Tyr Leu	Thr Ala Thr Trp Tyr	Tyr Tyr Asp Ser	
340	345	350	
Ile Leu Pro Ser Phe Arg Glu	Leu Ala Leu Leu Phe	Glu His Val Gln	
355	360	365	
Arg Ala Arg Asn Gly Gly	Leu Arg Pro Leu Glu	Val Arg Arg Ala Pro	
370	375	380	
Val Pro Asp Gly Ala Pro	Ser Arg Tyr Pro Pro	Val Ala Thr Cys His	
385	390	395	400
Arg Pro Gly Ser Thr Ser Phe	Cys Pro Gly Glu Ser	Ser Arg Met Gly	
405	410	415	
Ile Lys Asp Arg Ile Arg Met	Gly Ser Ser Gln Arg	Arg Thr Gly Pro	
420	425	430	
Ser Lys Gln His Leu Ala Pro	Pro Thr Met Pro Thr	Ser Pro Ser Ser	
435	440	445	
Glu Gln Val Gly Glu Ala	Thr Ser Pro Thr Lys	Val Gln Lys Ser Trp	
450	455	460	
Ser Phe Asn Asp Arg Thr Arg	Phe Arg Ala Ser	Leu Arg Leu Lys Pro	
465	470	475	480
Arg Thr Ser Ala Glu Asp Ala	Pro Ser Glu Glu Val	Ala Glu Glu Lys	
485	490	495	
Ser Tyr Gln Cys Glu Leu Thr	Val Asp Asp Ile Met	Pro Ala Val Lys	
500	505	510	
Thr Val Ile Arg Ser Ile Arg	Ile Leu Lys Phe Leu	Val Ala Lys Arg	
515	520	525	
Lys Phe Lys Glu Thr Leu Arg	Pro Tyr Asp Val Lys	Asp Val Ile Glu	
530	535	540	
Gln Tyr Ser Ala Gly His Leu	Asp Met Leu Gly Arg	Ile Lys Ser Leu	
545	550	555	560

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Gln Thr Arg Val Asp Gln Ile Val Gly Arg Gly Pro Gly Asp Arg Lys
 565 570 575
 Ala Arg Glu Lys Gly Asp Lys Gly Pro Ser Asp Ala Glu Val Val Asp
 580 585 590
 Glu Ile Ser Met Met Gly Arg Val Val Lys Val Glu Lys Gln Val Gln
 595 600 605
 Ser Ile Glu His Lys Leu Asp Leu Leu Val Gly Phe Tyr Ser Arg Trp
 610 615 620
 Leu Arg Ser Gly Thr Ser Ala Ser Leu Gly Ala Val Gln Val Pro Leu
 625 630 635 640
 Phe Asp Pro Asp Ile Thr Ser Asp Tyr His Ser Pro Val Asp His Glu
 645 650 655
 Asp Ile Ser Val Ser Ala Gln Thr Leu Ser Ile Ser Arg Ser Val Ser
 660 665 670
 Thr Asn Met Asp
 675

<210> 36
 <211> 361
 <212> PRT
 <213> Homo sapiens

<400> 36
 Gln Ile Phe Pro Trp Lys Cys Gln Ser Thr Gln Arg Asp Leu Trp Asn
 1 5 10 15
 Ile Phe Lys Leu Trp Gly Trp Thr Met Leu Cys Cys Asp Phe Leu Ala
 20 25 30
 His His Gly Thr Asp Cys Trp Thr Tyr His Tyr Ser Glu Lys Pro Met
 35 40 45
 Asn Trp Gln Arg Ala Arg Arg Phe Cys Arg Asp Asn Tyr Thr Asp Leu
 50 55 60
 Val Ala Ile Gln Asn Lys Ala Glu Ile Glu Tyr Leu Glu Lys Thr Leu
 65 70 75 80
 Pro Phe Ser Arg Ser Tyr Tyr Trp Ile Gly Ile Arg Lys Ile Gly Gly
 85 90 95
 Ile Trp Thr Trp Val Gly Thr Asn Lys Ser Leu Thr Glu Glu Ala Glu
 100 105 110
 Asn Trp Gly Asp Gly Glu Pro Asn Asn Lys Lys Asn Lys Glu Asp Cys
 115 120 125
 Val Glu Ile Tyr Ile Lys Arg Asn Lys Asp Ala Gly Lys Trp Asn Asp
 130 135 140
 Asp Ala Cys His Lys Leu Lys Ala Ala Leu Cys Tyr Thr Ala Ser Cys
 145 150 155 160
 Gln Pro Trp Ser Cys Ser Gly His Gly Glu Cys Val Glu Ile Ile Asn
 165 170 175
 Asn Tyr Thr Cys Asn Cys Asp Val Gly Tyr Tyr Gly Pro Gln Cys Gln
 180 185 190
 Phe Val Ile Gln Cys Glu Pro Leu Glu Ala Pro Glu Leu Gly Thr Met
 195 200 205
 Asp Cys Thr His Pro Leu Gly Asn Phe Ser Phe Ser Ser Gln Cys Ala
 210 215 220
 Phe Ser Cys Ser Glu Gly Thr Asn Leu Thr Gly Ile Glu Glu Thr Thr
 225 230 235 240
 Cys Gly Pro Phe Gly Asn Trp Ser Ser Pro Glu Pro Thr Cys Gln Val
 245 250 255
 Ile Gln Cys Glu Pro Leu Ser Ala Pro Asp Leu Gly Ile Met Asn Cys
 260 265 270
 Ser His Pro Leu Ala Ser Phe Ser Phe Thr Ser Ala Cys Thr Phe Ile
 275 280 285
 Cys Ser Glu Gly Thr Glu Leu Ile Gly Lys Lys Lys Thr Ile Cys Glu
 290 295 300
 Ser Ser Gly Ile Trp Ser Asn Pro Ser Pro Ile Cys Gln Lys Leu Asp
 305 310 315 320

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Lys Ser Phe Ser Met Ile Lys Glu Gly Asp Tyr Asn Pro Leu Phe Ile
 325 330 335
 Pro Val Ala Val Met Val Thr Ala Phe Ser Gly Leu Ala Phe Ile Ile
 340 345 350
 Trp Leu Ala Arg Arg Leu Lys Lys Gly
 355 360

<210> 37

<211> 611

<212> PRT

<213> Homo sapiens

<400> 37

Gln Lys Glu Gly Lys Lys Glu Arg Ala Val Val Asp Lys Val Phe Phe
 1 5 10 15
 Ser Arg Leu Ile Gln Ile Leu Lys Ile Met Val Pro Arg Thr Phe Cys
 20 25 30
 Lys Glu Thr Gly Tyr Leu Val Leu Ile Ala Val Met Leu Val Ser Arg
 35 40 45
 Thr Tyr Cys Asp Val Trp Met Ile Gln Asn Gly Thr Leu Ile Glu Ser
 50 55 60
 Gly Ile Ile Gly Arg Ser Arg Lys Asp Phe Lys Arg Tyr Leu Leu Asn
 65 70 75 80
 Phe Ile Ala Ala Met Pro Leu Ile Ser Leu Val Asn Asn Phe Leu Lys
 85 90 95
 Tyr Gly Leu Asn Glu Leu Lys Leu Cys Phe Arg Val Arg Leu Thr Lys
 100 105 110
 Tyr Leu Tyr Glu Glu Tyr Leu Gln Ala Phe Thr Tyr Tyr Lys Met Gly
 115 120 125
 Asn Leu Asp Asn Arg Ile Ala Asn Pro Asp Gln Leu Leu Thr Gln Asp
 130 135 140
 Val Glu Lys Phe Cys Asn Ser Val Val Asp Leu Tyr Ser Asn Leu Ser
 145 150 155 160
 Lys Pro Phe Leu Asp Ile Val Leu Tyr Ile Phe Lys Leu Thr Ser Ala
 165 170 175
 Ile Gly Ala Gln Gly Pro Ala Ser Met Met Ala Tyr Leu Val Val Ser
 180 185 190
 Gly Leu Phe Leu Thr Arg Leu Arg Arg Pro Ile Gly Lys Met Thr Ile
 195 200 205
 Thr Glu Gln Lys Tyr Glu Gly Glu Tyr Arg Tyr Val Asn Ser Arg Leu
 210 215 220
 Ile Thr Asn Ser Glu Glu Ile Ala Phe Tyr Asn Gly Asn Lys Arg Glu
 225 230 235 240
 Lys Gln Thr Val His Ser Val Phe Arg Lys Leu Val Glu His Leu His
 245 250 255
 Asn Phe Ile Leu Phe Arg Phe Ser Met Gly Phe Ile Asp Ser Ile Ile
 260 265 270
 Ala Lys Tyr Leu Ala Thr Val Val Gly Tyr Leu Val Val Ser Arg Pro
 275 280 285
 Phe Leu Asp Leu Ser His Pro Arg His Leu Lys Ser Thr His Ser Glu
 290 295 300
 Leu Leu Glu Asp Tyr Tyr Gln Ser Gly Arg Met Leu Leu Arg Met Ser
 305 310 315 320
 Gln Ala Leu Gly Arg Ile Val Leu Ala Gly Arg Glu Met Thr Arg Leu
 325 330 335
 Ala Gly Phe Thr Ala Arg Ile Thr Glu Leu Met Gln Val Leu Lys Asp
 340 345 350
 Leu Asn His Gly Lys Tyr Glu Arg Thr Met Val Ser Gln Gln Glu Lys
 355 360 365
 Gly Ile Glu Gly Val Gln Val Ile Pro Leu Ile Pro Gly Ala Gly Glu
 370 375 380
 Ile Ile Ile Ala Asp Asn Ile Ile Lys Phe Asp His Val Pro Leu Ala
 385 390 395 400

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Thr Pro Asn Gly Asp Val Leu Ile Arg Asp Leu Asn Phe Glu Val Arg
 405 410 415
 Ser Gly Ala Asn Val Leu Ile Cys Gly Pro Asn Gly Cys Gly Lys Ser
 420 425 430
 Ser Leu Phe Arg Val Leu Gly Glu Leu Trp Pro Leu Phe Gly Gly Arg
 435 440 445
 Leu Thr Lys Pro Glu Arg Gly Lys Leu Phe Tyr Val Pro Gln Arg Pro
 450 455 460
 Tyr Met Thr Leu Gly Thr Leu Arg Asp Gln Val Ile Tyr Pro Asp Gly
 465 470 475 480
 Arg Glu Asp Gln Lys Arg Lys Gly Ile Ser Asp Leu Val Leu Lys Glu
 485 490 495
 Tyr Leu Asp Asn Val Gln Leu Gly His Ile Leu Glu Arg Glu Gly Gly
 500 505 510
 Trp Asp Ser Val Gln Asp Trp Met Asp Val Leu Ser Gly Gly Glu Lys
 515 520 525
 Gln Arg Met Ala Met Ala Arg Leu Phe Tyr His Lys Pro Gln Phe Ala
 530 535 540
 Ile Leu Asp Glu Cys Thr Ser Ala Val Ser Val Asp Val Glu Gly Tyr
 545 550 555 560
 Ile Tyr Ser His Cys Arg Lys Val Gly Ile Thr Leu Phe Thr Val Ser
 565 570 575
 His Arg Lys Ser Leu Trp Lys His His Glu Tyr Tyr Leu His Met Asp
 580 585 590
 Gly Arg Gly Asn Tyr Glu Phe Lys Gln Ile Thr Glu Asp Thr Val Glu
 595 600 605
 Phe Gly Ser
 610

<210> 38

<211> 522

<212> PRT

<213> Homo sapiens

<400> 38

Met Gly His Leu Leu Thr Leu Val Phe Ile Leu Ala Leu Ala Gly Pro
 1 5 10 15
 Val Leu Gly Leu Lys Glu Cys Thr Arg Gly Ser Ala Val Trp Cys Gln
 20 25 30
 Asn Val Lys Thr Ala Ser Asp Cys Gly Ala Val Lys His Cys Leu Gln
 35 40 45
 Thr Val Trp Asn Lys Pro Thr Val Lys Ser Leu Pro Cys Asp Ile Cys
 50 55 60
 Lys Asp Val Val Thr Ala Ala Gly Asp Met Leu Lys Asp Asn Ala Thr
 65 70 75 80
 Glu Glu Glu Ile Leu Val Tyr Leu Glu Lys Thr Cys Asp Trp Leu Pro
 85 90 95
 Lys Pro Asn Met Ser Ala Ser Cys Lys Glu Ile Val Asp Ser Tyr Leu
 100 105 110
 Pro Val Ile Leu Asp Ile Ile Lys Gly Glu Met Ser Arg Pro Gly Glu
 115 120 125
 Val Cys Ser Ala Leu Asn Leu Cys Glu Ser Leu Gln Lys His Leu Ala
 130 135 140
 Glu Leu Asn His Gln Lys Gln Leu Glu Ser Asn Lys Ile Pro Glu Leu
 145 150 155 160
 Asp Met Thr Glu Val Val Ala Pro Phe Met Ala Asn Ile Pro Leu Leu
 165 170 175
 Leu Tyr Pro Gln Asp Gly Pro Arg Ser Lys Pro Gln Pro Lys Asp Asn
 180 185 190
 Gly Asp Val Cys Gln Asp Cys Ile Gln Met Val Thr Asp Ile Gln Thr
 195 200 205
 Ala Val Arg Thr Asn Ser Thr Phe Val Gln Ala Leu Val Glu His Val
 210 215 220

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Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ala Asp Ile Cys Lys
 225 230 235 240
 Asn Tyr Ile Ser Gln Tyr Ser Glu Ile Ala Ile Gln Met Met Met His
 245 250 255
 Met Gln Pro Lys Glu Ile Cys Ala Leu Val Gly Phe Cys Asp Glu Val
 260 265 270
 Lys Glu Met Pro Met Gln Thr Leu Val Pro Ala Lys Val Ala Ser Lys
 275 280 285
 Asn Val Ile Pro Ala Leu Glu Leu Val Glu Pro Ile Lys Lys His Glu
 290 295 300
 Val Pro Ala Lys Ser Asp Val Tyr Cys Glu Val Cys Glu Phe Leu Val
 305 310 315 320
 Lys Glu Val Thr Lys Leu Ile Asp Asn Asn Lys Thr Glu Lys Glu Ile
 325 330 335
 Leu Asp Ala Phe Asp Lys Met Cys Ser Lys Leu Pro Lys Ser Leu Ser
 340 345 350
 Glu Glu Cys Gln Glu Val Val Asp Thr Tyr Gly Ser Ser Ile Leu Ser
 355 360 365
 Ile Leu Leu Glu Glu Val Ser Pro Glu Leu Val Cys Ser Met Leu His
 370 375 380
 Leu Cys Ser Gly Thr Arg Leu Pro Ala Leu Thr Val His Val Thr Gln
 385 390 395 400
 Pro Lys Asp Gly Gly Phe Cys Glu Val Cys Lys Lys Leu Val Gly Tyr
 405 410 415
 Leu Asp Arg Asn Leu Glu Lys Asn Ser Thr Lys Gln Glu Ile Leu Ala
 420 425 430
 Ala Leu Glu Lys Gly Cys Ser Phe Leu Pro Asp Pro Tyr Gln Lys Gln
 435 440 445
 Cys Asp Gln Phe Val Ala Glu Tyr Glu Pro Val Leu Ile Glu Ile Leu
 450 455 460
 Val Glu Val Met Asp Pro Ser Phe Val Cys Leu Lys Ile Gly Ala Cys
 465 470 475 480
 Pro Ser Ala His Lys Pro Leu Leu Gly Thr Glu Lys Cys Ile Trp Gly
 485 490 495
 Pro Ser Tyr Trp Cys Gln Asn Thr Glu Thr Ala Ala Gln Cys Asn Ala
 500 505 510
 Val Glu His Cys Lys Arg His Val Trp Asn
 515 520

<210> 39

<211> 236

<212> PRT

<213> Homo sapiens

<400> 39

Leu Thr Glu Arg Ala Asp Phe Gln Tyr Ser Gln Arg Glu Leu Asp Thr
 1 5 10 15
 Ile Glu Val Phe Pro Thr Lys Ser Ala Arg Gly Asn Arg Val Ser Cys
 20 25 30
 Met Tyr Val Arg Cys Val Pro Gly Ala Arg Tyr Thr Val Phe Phe Ser
 35 40 45
 His Gly Asn Ala Val Asp Leu Ser Gln Met Ser Ser Phe Tyr Ile Gly
 50 55 60
 Leu Gly Ser Arg Leu His Cys Asn Ile Phe Tyr Asp Tyr Ser Gly Tyr
 65 70 75 80
 Gly Ala Ser Ala Gly Arg Pro Ser Glu Arg Asn Leu Tyr Ala Asp Ile
 85 90 95
 Asp Ala Ala Trp Gln Ala Leu His Thr Arg Tyr Gly Ile Ser Pro Asp
 100 105 110
 Ser Ile Ile Leu Tyr Gly Gln Ser Ile Gly Thr Val Pro Thr Val Asp
 115 120 125
 Leu Ala Ser Arg Tyr Glu Cys Ala Ala Val Val Leu His Ser Pro Leu
 130 135 140

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Thr Ser Gly Met Arg Val Ala Phe Pro Asp Thr Lys Thr Tyr Cys Phe
 145 150 155 160
 Asp Ala Phe Pro Asn Ile Glu Lys Val Ser Lys Ile Thr Ser Pro Val
 165 170 175
 Leu Ile Ile His Gly Met Glu Asp Glu Val Ile Asp Phe Ser His Gly
 180 185 190
 Leu Ala Leu Tyr Glu Arg Cys Pro Lys Ala Val Glu Pro Leu Trp Val
 195 200 205
 Glu Gly Ala Gly His Asn Asp Ile Glu Leu Tyr Ser Gln Tyr Leu Glu
 210 215 220
 Arg Leu Arg Arg Phe Ile Ser Gln Glu Leu Pro Ser
 225 230 235

<210> 40
 <211> 4647
 <212> PRT
 <213> Homo sapiens

<400> 40
 Met Ser Glu Pro Gly Gly Gly Gly Glu Asp Gly Ser Ala Gly Leu
 1 5 10 15
 Glu Val Ser Ala Val Gln Asn Val Ala Asp Val Ser Val Leu Gln Lys
 20 25 30
 His Leu Arg Lys Leu Val Pro Leu Leu Leu Glu Asp Gly Gly Glu Ala
 35 40 45
 Pro Ala Ala Leu Glu Ala Ala Leu Glu Glu Lys Ser Ala Leu Glu Gln
 50 55 60
 Met Arg Lys Phe Leu Ser Asp Pro Gln Val His Thr Val Leu Val Glu
 65 70 75 80
 Arg Ser Thr Leu Lys Glu Asp Val Gly Asp Glu Gly Glu Glu Lys
 85 90 95
 Glu Phe Ile Ser Tyr Asn Ile Asn Ile Asp Ile His Tyr Gly Val Lys
 100 105 110
 Ser Asn Ser Leu Ala Phe Ile Lys Arg Thr Pro Val Ile Asp Ala Asp
 115 120 125
 Lys Pro Val Ser Ser Gln Leu Arg Val Leu Thr Leu Ser Glu Asp Ser
 130 135 140
 Pro Tyr Glu Thr Leu His Ser Phe Ile Ser Asn Ala Val Ala Pro Phe
 145 150 155 160
 Phe Lys Ser Tyr Ile Arg Glu Ser Gly Lys Ala Asp Arg Asp Gly Asp
 165 170 175
 Lys Met Ala Pro Ser Val Glu Lys Lys Ile Ala Glu Leu Glu Met Gly
 180 185 190
 Leu Leu His Leu Gln Gln Asn Ile Glu Ile Pro Glu Ile Ser Leu Pro
 195 200 205
 Ile His Pro Met Ile Thr Asn Val Ala Lys Gln Cys Tyr Glu Arg Gly
 210 215 220
 Glu Lys Pro Lys Val Thr Asp Phe Gly Asp Lys Val Glu Asp Pro Thr
 225 230 235 240
 Phe Leu Asn Gln Leu Gln Ser Gly Val Asn Arg Trp Ile Arg Glu Ile
 245 250 255
 Gln Lys Val Thr Lys Leu Asp Arg Asp Pro Ala Ser Gly Thr Ala Leu
 260 265 270
 Gln Glu Ile Ser Phe Trp Leu Asn Leu Glu Arg Ala Leu Tyr Arg Ile
 275 280 285
 Gln Glu Lys Arg Glu Ser Pro Glu Val Leu Leu Thr Leu Asp Ile Leu
 290 295 300
 Lys His Gly Lys Arg Phe His Ala Thr Val Ser Phe Asp Thr Asp Thr
 305 310 315 320
 Gly Leu Lys Gln Ala Leu Glu Thr Val Asn Asp Tyr Asn Pro Leu Met
 325 330 335
 Lys Asp Phe Pro Leu Asn Asp Leu Leu Ser Ala Thr Glu Leu Asp Lys
 340 345 350

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Ile Arg Gln Ala Leu Val Ala Ile Phe Thr His Leu Arg Lys Ile Arg
 355 360 365
 Asn Thr Lys Tyr Pro Ile Gln Arg Ala Leu Arg Leu Val Glu Ala Ile
 370 375 380
 Ser Arg Asp Leu Ser Ser Gln Leu Leu Lys Val Leu Gly Thr Arg Lys
 385 390 395 400
 Leu Met His Val Ala Tyr Glu Glu Phe Glu Lys Val Met Val Ala Cys
 405 410 415
 Phe Glu Val Phe Gln Thr Trp Asp Asp Glu Tyr Glu Lys Leu Gln Val
 420 425 430
 Leu Leu Arg Asp Ile Val Lys Arg Lys Arg Glu Glu Asn Leu Lys Met
 435 440 445
 Val Trp Arg Ile Asn Pro Ala His Arg Lys Leu Gln Ala Arg Leu Asp
 450 455 460
 Gln Met Arg Lys Phe Arg Arg Gln His Glu Gln Leu Arg Ala Val Ile
 465 470 475 480
 Val Arg Val Leu Arg Pro Gln Val Thr Ala Val Ala Gln Gln Asn Gln
 485 490 495
 Gly Glu Val Pro Glu Pro Gln Asp Met Lys Val Ala Glu Val Leu Phe
 500 505 510
 Asp Ala Ala Asp Ala Asn Ala Ile Glu Glu Val Asn Leu Ala Tyr Glu
 515 520 525
 Asn Val Lys Glu Val Asp Gly Leu Asp Val Ser Lys Glu Gly Thr Glu
 530 535 540
 Ala Trp Glu Ala Ala Met Lys Arg Tyr Asp Glu Arg Ile Asp Arg Val
 545 550 555 560
 Glu Thr Arg Ile Thr Ala Arg Leu Arg Asp Gln Leu Gly Thr Ala Lys
 565 570 575
 Asn Ala Asn Glu Met Phe Arg Ile Phe Ser Arg Phe Asn Ala Leu Phe
 580 585 590
 Val Arg Pro His Ile Arg Gly Ala Ile Arg Glu Tyr Gln Thr Gln Leu
 595 600 605
 Ile Gln Arg Val Lys Asp Asp Ile Glu Ser Leu His Asp Lys Phe Lys
 610 615 620
 Val Gln Tyr Pro Gln Ser Gln Ala Cys Lys Met Ser His Val Arg Asp
 625 630 635 640
 Leu Pro Pro Val Ser Gly Ser Ile Ile Trp Ala Lys Gln Ile Asp Arg
 645 650 655
 Gln Leu Thr Ala Tyr Met Lys Arg Val Glu Asp Val Leu Gly Lys Gly
 660 665 670
 Trp Glu Asn His Val Glu Gly Gln Lys Leu Lys Gln Asp Gly Asp Ser
 675 680 685
 Phe Arg Met Lys Leu Asn Thr Gln Glu Ile Phe Asp Asp Trp Ala Arg
 690 695 700
 Lys Val Gln Gln Arg Asn Leu Gly Val Ser Gly Arg Ile Phe Thr Ile
 705 710 715 720
 Glu Ser Thr Arg Val Arg Gly Arg Thr Gly Asn Val Leu Lys Leu Lys
 725 730 735
 Val Asn Phe Leu Pro Glu Ile Ile Thr Leu Ser Lys Glu Val Arg Asn
 740 745 750
 Leu Lys Trp Leu Gly Phe Arg Val Pro Leu Ala Ile Val Asn Lys Ala
 755 760 765
 His Gln Ala Asn Gln Leu Tyr Pro Phe Ala Ile Ser Leu Ile Glu Ser
 770 775 780
 Val Arg Thr Tyr Glu Arg Thr Cys Glu Lys Val Glu Glu Arg Asn Thr
 785 790 795 800
 Ile Ser Leu Leu Val Ala Gly Leu Lys Lys Glu Val Gln Ala Leu Ile
 805 810 815
 Ala Glu Gly Ile Ala Leu Val Trp Glu Ser Tyr Lys Leu Asp Pro Tyr
 820 825 830
 Val Gln Arg Leu Ala Glu Thr Val Phe Asn Phe Gln Glu Lys Val Asp
 835 840 845
 Asp Leu Leu Ile Ile Glu Glu Lys Ile Asp Leu Glu Val Arg Ser Leu

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850	855	860
Glu Thr Cys Met Tyr Asp His Lys Thr Phe Ser Glu Ile Leu Asn Arg		
865	870	875
Val Gln Lys Ala Val Asp Asp Leu Asn Leu His Ser Tyr Ser Asn Leu		880
885	890	895
Pro Ile Trp Val Asn Lys Leu Asp Met Glu Ile Glu Arg Ile Leu Gly		
900	905	910
Val Arg Leu Gln Ala Gly Leu Arg Ala Trp Thr Gln Val Leu Leu Gly		
915	920	925
Gln Ala Glu Asp Lys Ala Glu Val Asp Met Asp Thr Asp Ala Pro Gln		
930	935	940
Val Ser His Lys Pro Gly Gly Glu Pro Lys Ile Lys Asn Val Val His		
945	950	955
Glu Leu Arg Ile Thr Asn Gln Val Ile Tyr Leu Asn Pro Pro Ile Glu		960
965	970	975
Glu Cys Arg Tyr Lys Leu Tyr Gln Glu Met Phe Ala Trp Lys Met Val		
980	985	990
Val Leu Ser Leu Pro Arg Ile Gln Ser Gln Arg Tyr Gln Val Gly Val		
995	1000	1005
His Tyr Glu Leu Thr Glu Glu Lys Phe Tyr Arg Asn Ala Leu Thr		
1010	1015	1020
Arg Met Pro Asp Gly Pro Val Ala Leu Glu Glu Ser Tyr Ser Ala Val		
1025	1030	1035
Met Gly Ile Val Ser Glu Val Glu Gln Tyr Val Lys Val Trp Leu Gln		
1045	1050	1055
Tyr Gln Cys Leu Trp Asp Met Gln Ala Glu Asn Ile Tyr Asn Arg Leu		
1060	1065	1070
Gly Glu Asp Leu Asn Lys Trp Gln Ala Leu Leu Val Gln Ile Arg Lys		
1075	1080	1085
Ala Arg Gly Thr Phe Asp Asn Ala Glu Thr Lys Lys Glu Phe Gly Pro		
1090	1095	1100
Val Val Ile Asp Tyr Gly Lys Val Gln Ser Lys Val Asn Leu Lys Tyr		
1105	1110	1115
Asp Ser Trp His Lys Glu Val Leu Ser Lys Phe Gly Gln Met Leu Gly		
1125	1130	1135
Ser Asn Met Thr Glu Phe His Ser Gln Ile Ser Lys Ser Arg Gln Glu		
1140	1145	1150
Leu Glu Gln His Ser Val Asp Thr Ala Ser Thr Ser Asp Ala Val Thr		
1155	1160	1165
Phe Ile Thr Tyr Val Gln Ser Leu Lys Arg Lys Ile Lys Gln Phe Glu		
1170	1175	1180
Lys Gln Val Glu Leu Tyr Arg Asn Gly Gln Arg Leu Leu Glu Lys Gln		
1185	1190	1195
Arg Phe Gln Phe Pro Pro Ser Trp Leu Tyr Ile Asp Asn Ile Glu Gly		
1205	1210	1215
Glu Trp Gly Ala Phe Asn Asp Ile Met Arg Arg Lys Asp Ser Ala Ile		
1220	1225	1230
Gln Gln Val Ala Asn Leu Gln Met Lys Ile Val Gln Glu Asp Arg		
1235	1240	1245
Ala Val Glu Ser Arg Thr Thr Asp Leu Leu Thr Asp Trp Glu Lys Thr		
1250	1255	1260
Lys Pro Val Thr Gly Asn Leu Arg Pro Glu Glu Ala Leu Gln Ala Leu		
1265	1270	1275
Thr Ile Tyr Glu Gly Lys Phe Gly Arg Leu Lys Asp Asp Arg Glu Lys		
1285	1290	1295
Cys Ala Lys Ala Lys Glu Ala Leu Glu Leu Thr Asp Thr Gly Leu Leu		
1300	1305	1310
Ser Gly Ser Glu Glu Arg Val Gln Val Ala Leu Glu Glu Leu Gln Asp		
1315	1320	1325
Leu Lys Gly Val Trp Ser Glu Leu Ser Lys Val Trp Glu Gln Ile Asp		
1330	1335	1340
Gln Met Lys Glu Gln Pro Trp Val Ser Val Gln Pro Arg Lys Leu Arg		
1345	1350	1355
		1360

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Gln Asn Leu Asp Ala Leu Leu Asn Gln Leu Lys Ser Phe Pro Ala Arg
 1365 1370 1375
 Leu Arg Gln Tyr Ala Ser Tyr Glu Phe Val Gln Arg Leu Leu Lys Gly
 1380 1385 1390
 Tyr Met Lys Ile Asn Met Leu Val Ile Glu Leu Lys Ser Glu Ala Leu
 1395 1400 1405
 Lys Asp Arg His Trp Lys Gln Leu Met Lys Arg Leu His Val Asn Trp
 1410 1415 1420
 Val Val Ser Glu Leu Thr Leu Gly Gln Ile Trp Asp Val Asp Leu Gln
 1425 1430 1435 1440
 Lys Asn Glu Ala Ile Val Lys Asp Val Leu Leu Val Ala Gln Gly Glu
 1445 1450 1455
 Met Ala Leu Glu Glu Phe Leu Lys Gln Ala Lys Val Trp Asn Thr Tyr
 1460 1465 1470
 Glu Leu Asp Leu Val Asn Tyr Gln Asn Lys Cys Arg Leu Ile Arg Gly
 1475 1480 1485
 Trp Asp Asp Leu Phe Asn Lys Val Lys Glu His Ile Asn Ser Val Ser
 1490 1495 1500
 Ala Met Lys Leu Ser Pro Tyr Tyr Lys Val Phe Glu Glu Asp Ala Leu
 1505 1510 1515 1520
 Ser Trp Glu Asp Lys Leu Asn Arg Ile Met Ala Leu Phe Asp Val Trp
 1525 1530 1535
 Ile Asp Val Gln Arg Arg Trp Val Tyr Leu Glu Gly Ile Phe Thr Gly
 1540 1545 1550
 Ser Ala Asp Ile Lys His Leu Leu Pro Val Glu Thr Gln Arg Phe Gln
 1555 1560 1565
 Ser Ile Ser Thr Glu Phe Leu Ala Leu Met Lys Lys Val Ser Lys Ser
 1570 1575 1580
 Pro Leu Val Met Asp Val Leu Asn Ile Gln Gly Val Gln Arg Ser Leu
 1585 1590 1595 1600
 Glu Arg Leu Ala Asp Leu Leu Gly Lys Ile Gln Lys Ala Leu Gly Glu
 1605 1610 1615
 Tyr Leu Glu Arg Glu Arg Ser Ser Phe Pro Arg Phe Tyr Phe Val Gly
 1620 1625 1630
 Asp Glu Asp Leu Leu Glu Ile Ile Gly Asn Ser Lys Asn Val Ala Lys
 1635 1640 1645
 Leu Gln Lys His Phe Lys Lys Met Phe Ala Gly Val Ser Ser Ile Ile
 1650 1655 1660
 Leu Asn Glu Asp Asn Ser Val Val Leu Gly Ile Ser Ser Arg Glu Gly
 1665 1670 1675 1680
 Glu Glu Val Met Phe Lys Thr Pro Val Ser Ile Thr Glu His Pro Lys
 1685 1690 1695
 Ile Asn Glu Trp Leu Thr Leu Val Glu Lys Glu Met Arg Val Thr Leu
 1700 1705 1710
 Ala Lys Leu Leu Ala Glu Ser Val Thr Glu Val Glu Ile Phe Gly Lys
 1715 1720 1725
 Ala Thr Ser Ile Asp Pro Asn Thr Tyr Ile Thr Trp Ile Asp Lys Tyr
 1730 1735 1740
 Gln Ala Gln Leu Val Val Leu Ser Ala Gln Ile Ala Trp Ser Glu Asn
 1745 1750 1755 1760
 Val Glu Thr Ala Leu Ser Ser Met Gly Gly Gly Asp Ala Ala Pro
 1765 1770 1775
 Leu His Ser Val Leu Ser Asn Val Glu Val Thr Leu Asn Val Leu Ala
 1780 1785 1790
 Asp Ser Val Leu Met Glu Gln Pro Pro Leu Arg Arg Arg Lys Leu Glu
 1795 1800 1805
 His Leu Ile Thr Glu Leu Val His Gln Arg Asp Val Thr Arg Ser Leu
 1810 1815 1820
 Ile Lys Ser Lys Ile Asp Asn Ala Lys Ser Phe Glu Trp Leu Ser Gln
 1825 1830 1835 1840
 Met Arg Phe Tyr Phe Asp Pro Lys Gln Thr Asp Val Leu Gln Gln Leu
 1845 1850 1855
 Ser Ile Gln Met Ala Asn Ala Lys Phe Asn Tyr Gly Phe Glu Tyr Leu

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1860	1865	1870
Gly Val Gln Asp Lys Leu Val Gln Thr Pro Leu Thr Asp Arg Cys Tyr		
1875	1880	1885
Leu Thr Met Thr Gln Ala Leu Glu Ala Arg Leu Gly Gly Ser Pro Phe		
1890	1895	1900
Gly Pro Ala Gly Thr Gly Lys Thr Glu Ser Val Lys Ala Leu Gly His		
1905	1910	1915
Gln Leu Gly Arg Phe Val Leu Val Phe Asn Cys Asp Glu Thr Phe Asp		
1925	1930	1935
Phe Gln Ala Met Gly Arg Ile Phe Val Gly Leu Cys Gln Val Gly Ala		
1940	1945	1950
Trp Gly Cys Phe Asp Glu Phe Asn Arg Leu Glu Glu Arg Met Leu Ser		
1955	1960	1965
Ala Val Ser Gln Gln Val Gln Cys Ile Gln Glu Ala Leu Arg Glu His		
1970	1975	1980
Ser Asn Pro Asn Tyr Asp Lys Thr Ser Ala Pro Ile Thr Cys Glu Leu		
1985	1990	1995
Leu Asn Lys Gln Val Lys Val Ser Pro Asp Met Ala Ile Phe Ile Thr		
2005	2010	2015
Met Asn Pro Ala Tyr Ala Gly Arg Ser Asn Leu Pro Asp Asn Leu Lys		
2020	2025	2030
Lys Leu Phe Arg Ser Leu Ala Met Thr Lys Pro Asp Arg Gln Leu Ile		
2035	2040	2045
Ala Gln Val Met Leu Tyr Ser Gln Gly Phe Arg Thr Ala Glu Val Leu		
2050	2055	2060
Ala Asn Lys Ile Val Pro Phe Phe Lys Leu Cys Asp Glu Gln Leu Ser		
2065	2070	2075
Ser Gln Ser His Tyr Asp Phe Gly Leu Arg Ala Leu Lys Ser Val Leu		
2085	2090	2095
Val Ser Ala Gly Asn Val Lys Arg Glu Arg Ile Gln Lys Ile Lys Arg		
2100	2105	2110
Glu Lys Glu Glu Arg Gly Glu Ala Val Asp Glu Gly Glu Ile Ala Glu		
2115	2120	2125
Asn Leu Pro Glu Gln Glu Ile Leu Ile Gln Ser Val Cys Glu Thr Met		
2130	2135	2140
Val Pro Lys Leu Val Ala Glu Asp Ile Pro Leu Leu Phe Ser Leu Leu		
2145	2150	2155
Ser Asp Val Phe Pro Gly Val Gln Tyr His Arg Gly Glu Met Thr Ala		
2165	2170	2175
Leu Arg Glu Glu Leu Lys Lys Val Cys Gln Glu Met Tyr Leu Thr Tyr		
2180	2185	2190
Gly Asp Gly Glu Glu Val Gly Gly Met Trp Val Glu Lys Val Leu Gln		
2195	2200	2205
Leu Tyr Gln Ile Thr Gln Ile Asn His Gly Leu Met Met Val Gly Pro		
2210	2215	2220
Ser Gly Ser Gly Lys Ser Met Ala Trp Arg Val Leu Leu Lys Ala Leu		
2225	2230	2235
Glu Arg Leu Glu Gly Val Glu Gly Val Ala His Ile Ile Asp Pro Lys		
2245	2250	2255
Ala Ile Ser Lys Asp His Leu Tyr Gly Thr Leu Asp Pro Asn Thr Arg		
2260	2265	2270
Glu Trp Thr Asp Gly Leu Phe Thr His Val Leu Arg Lys Ile Ile Asp		
2275	2280	2285
Ser Val Arg Gly Glu Leu Gln Lys Arg Gln Trp Ile Val Phe Asp Gly		
2290	2295	2300
Asp Val Asp Pro Glu Trp Val Glu Asn Leu Asn Ser Val Leu Asp Asp		
2305	2310	2315
Asn Lys Leu Leu Thr Leu Pro Asn Gly Glu Arg Leu Ser Leu Pro Pro		
2325	2330	2335
Asn Val Arg Ile Met Phe Glu Val Gln Asp Leu Lys Tyr Ala Thr Leu		
2340	2345	2350
Ala Thr Val Ser Arg Cys Gly Met Val Trp Phe Ser Glu Asp Val Leu		
2355	2360	2365

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Ser Thr Asp Met Ile Phe Asn Asn Phe Leu Ala Arg Leu Arg Ser Ile
 2370 2375 2380
 Pro Leu Asp Glu Gly Glu Asp Glu Ala Gln Arg Arg Arg Lys Gly Lys
 2385 2390 2395 2400
 Glu Asp Glu Gly Glu Ala Ala Ser Pro Met Leu Gln Ile Gln Arg
 2405 2410 2415
 Asp Ala Ala Thr Ile Met Gln Pro Tyr Phe Thr Ser Asn Gly Leu Val
 2420 2425 2430
 Thr Lys Ala Leu Glu His Ala Phe Gln Leu Glu His Ile Met Asp Leu
 2435 2440 2445
 Thr Arg Leu Arg Cys Leu Gly Ser Leu Phe Ser Met Leu His Gln Ala
 2450 2455 2460
 Cys Arg Asn Val Ala Gln Tyr Asn Ala Asn His Pro Asp Phe Pro Met
 2465 2470 2475 2480
 Gln Ile Glu Gln Leu Glu Arg Tyr Ile Gln Arg Tyr Leu Val Tyr Ala
 2485 2490 2495
 Ile Leu Trp Ser Leu Ser Gly Asp Ser Arg Leu Lys Met Arg Ala Glu
 2500 2505 2510
 Leu Gly Glu Tyr Ile Arg Arg Ile Thr Thr Val Pro Leu Pro Thr Ala
 2515 2520 2525
 Pro Asn Ile Pro Ile Ile Asp Tyr Glu Val Ser Ile Ser Gly Glu Trp
 2530 2535 2540
 Ser Pro Trp Gln Ala Lys Val Pro Gln Ile Glu Val Glu Thr His Lys
 2545 2550 2555 2560
 Val Ala Ala Pro Asp Val Val Val Pro Thr Leu Asp Thr Val Arg His
 2565 2570 2575
 Glu Ala Leu Leu Tyr Thr Trp Leu Ala Glu His Lys Pro Leu Val Leu
 2580 2585 2590
 Cys Gly Pro Pro Gly Ser Gly Lys Thr Met Thr Leu Phe Ser Ala Leu
 2595 2600 2605
 Arg Ala Leu Pro Asp Met Glu Val Val Gly Leu Asn Phe Ser Ser Ala
 2610 2615 2620
 Thr Thr Pro Glu Leu Leu Leu Lys Thr Phe Asp His Tyr Cys Glu Tyr
 2625 2630 2635 2640
 Arg Arg Thr Pro Asn Gly Val Val Leu Ala Pro Val Gln Leu Gly Lys
 2645 2650 2655
 Trp Leu Val Leu Phe Cys Asp Glu Ile Asn Leu Pro Asp Met Asp Lys
 2660 2665 2670
 Tyr Gly Thr Gln Arg Val Ile Ser Phe Ile Arg Gln Met Val Glu His
 2675 2680 2685
 Gly Gly Phe Tyr Arg Thr Ser Asp Gln Thr Trp Val Lys Leu Glu Arg
 2690 2695 2700
 Ile Gln Phe Val Gly Ala Cys Asn Pro Pro Thr Asp Pro Gly Arg Lys
 2705 2710 2715 2720
 Pro Leu Ser His Arg Phe Leu Arg His Val Pro Val Val Tyr Val Asp
 2725 2730 2735
 Tyr Pro Gly Pro Ala Ser Leu Thr Gln Ile Tyr Gly Thr Phe Asn Arg
 2740 2745 2750
 Ala Met Leu Arg Leu Ile Pro Ser Leu Arg Thr Tyr Ala Glu Pro Leu
 2755 2760 2765
 Thr Ala Ala Met Val Glu Phe Tyr Thr Met Ser Gln Glu Arg Phe Thr
 2770 2775 2780
 Gln Asp Thr Gln Pro His Tyr Ile Tyr Ser Pro Arg Glu Met Thr Arg
 2785 2790 2795 2800
 Trp Val Arg Gly Ile Phe Glu Ala Leu Arg Pro Leu Glu Thr Leu Pro
 2805 2810 2815
 Val Glu Gly Leu Ile Arg Ile Trp Ala His Glu Ala Leu Arg Leu Phe
 2820 2825 2830
 Gln Asp Arg Leu Val Glu Asp Glu Glu Arg Arg Trp Thr Asp Glu Asn
 2835 2840 2845
 Ile Asp Thr Val Ala Leu Lys His Phe Pro Asn Ile Asp Arg Glu Lys
 2850 2855 2860
 Ala Met Ser Arg Pro Ile Leu Tyr Ser Asn Trp Leu Ser Lys Asp Tyr

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2865	2870	2875	2880
Ile Pro Val Asp Gln Glu Glu Leu Arg Asp Tyr Val Lys Ala Arg Leu			
2885	2890	2895	
Lys Val Phe Tyr Glu Glu Glu Leu Asp Val Pro Leu Val Leu Phe Asn			
2900	2905	2910	
Glu Val Leu Asp His Val Leu Arg Ile Asp Arg Ile Phe Arg Gln Pro			
2915	2920	2925	
Gln Gly His Leu Leu Leu Ile Gly Val Ser Gly Ala Gly Lys Thr Thr			
2930	2935	2940	
Leu Ser Arg Phe Val Ala Trp Met Asn Gly Leu Ser Val Tyr Gln Ile			
2945	2950	2955	2960
Lys Val His Arg Lys Tyr Thr Gly Glu Asp Phe Asp Glu Asp Leu Arg			
2965	2970	2975	
Thr Val Leu Arg Arg Ser Gly Cys Lys Asn Glu Lys Ile Ala Phe Ile			
2980	2985	2990	
Met Asp Glu Ser Asn Val Leu Asp Ser Gly Phe Leu Glu Arg Met Asn			
2995	3000	3005	
Thr Leu Leu Ala Asn Gly Glu Val Pro Gly Leu Phe Glu Gly Asp Glu			
3010	3015	3020	
Tyr Ala Thr Leu Met Thr Gln Cys Lys Glu Gly Ala Gln Lys Glu Gly			
3025	3030	3035	3040
Leu Met Leu Asp Ser His Glu Glu Leu Tyr Lys Trp Phe Thr Ser Gln			
3045	3050	3055	
Val Ile Arg Asn Leu His Val Val Phe Thr Met Asn Pro Ser Ser Glu			
3060	3065	3070	
Gly Leu Lys Asp Arg Ala Ala Thr Ser Pro Ala Leu Phe Asn Arg Cys			
3075	3080	3085	
Val Leu Asn Trp Phe Gly Asp Trp Ser Thr Glu Ala Leu Tyr Gln Val			
3090	3095	3100	
Gly Lys Glu Phe Thr Ser Lys Met Asp Leu Glu Lys Pro Asn Tyr Ile			
3105	3110	3115	3120
Val Pro Asp Tyr Met Pro Val Val Tyr Asp Lys Leu Pro Gln Pro Pro			
3125	3130	3135	
Ser His Arg Glu Ala Ile Val Asn Ser Cys Val Phe Val His Gln Thr			
3140	3145	3150	
Leu His Gln Ala Asn Ala Arg Leu Ala Lys Arg Gly Gly Arg Thr Met			
3155	3160	3165	
Ala Ile Thr Pro Arg His Tyr Leu Asp Phe Ile Asn His Tyr Ala Asn			
3170	3175	3180	
Leu Phe His Glu Lys Arg Ser Glu Leu Glu Glu Gln Met His Leu			
3185	3190	3195	3200
Asn Val Gly Leu Arg Lys Ile Lys Glu Thr Val Asp Gln Val Glu Glu			
3205	3210	3215	
Leu Arg Arg Asp Leu Arg Ile Lys Ser Gln Glu Leu Glu Val Lys Asn			
3220	3225	3230	
Ala Ala Ala Asn Asp Lys Leu Lys Lys Met Val Lys Asp Gln Gln Glu			
3235	3240	3245	
Ala Glu Lys Lys Lys Val Met Ser Gln Glu Ile Gln Glu Gln Leu His			
3250	3255	3260	
Lys Gln Gln Glu Val Ile Ala Asp Lys Gln Met Ser Val Lys Glu Asp			
3265	3270	3275	3280
Leu Asp Lys Val Glu Pro Ala Val Ile Glu Ala Gln Asn Ala Val Lys			
3285	3290	3295	
Ser Ile Lys Lys Gln His Leu Val Glu Val Arg Ser Met Ala Asn Pro			
3300	3305	3310	
Pro Ala Ala Val Lys Leu Ala Leu Glu Ser Ile Cys Leu Leu Leu Gly			
3315	3320	3325	
Glu Ser Thr Thr Asp Trp Lys Gln Ile Arg Ser Ile Ile Met Arg Glu			
3330	3335	3340	
Asn Phe Ile Pro Thr Ile Val Asn Phe Ser Ala Glu Glu Ile Ser Asp			
3345	3350	3355	3360
Ala Ile Arg Glu Lys Met Lys Lys Asn Tyr Met Ser Asn Pro Ser Tyr			
3365	3370	3375	

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Asn Tyr Glu Ile Val Asn Arg Ala Ser Leu Ala Cys Gly Pro Met Val
 3380 3385 3390
 Lys Trp Ala Ile Ala Gln Leu Asn Tyr Ala Asp Met Leu Lys Arg Val
 3395 3400 3405
 Glu Pro Leu Arg Asn Glu Leu Gln Lys Leu Glu Asp Asp Ala Lys Asp
 3410 3415 3420
 Asn Gln Gln Lys Ala Asn Glu Val Glu Gln Met Ile Arg Asp Leu Glu
 3425 3430 3435 3440
 Ala Ser Ile Ala Arg Tyr Lys Glu Glu Tyr Ala Val Leu Ile Ser Glu
 3445 3450 3455
 Ala Gln Ala Ile Lys Ala Asp Leu Ala Ala Val Glu Ala Lys Val Asn
 3460 3465 3470
 Arg Ser Thr Ala Leu Leu Lys Ser Leu Ser Ala Glu Arg Glu Arg Trp
 3475 3480 3485
 Glu Lys Thr Ser Glu Thr Phe Lys Asn Gln Met Ser Thr Ile Ala Gly
 3490 3495 3500
 Asp Cys Leu Leu Ser Ala Ala Phe Ile Ala Tyr Ala Gly Tyr Phe Asp
 3505 3510 3515 3520
 Gln Gln Met Arg Gln Asn Leu Phe Thr Thr Trp Ser His His Leu Gln
 3525 3530 3535
 Gln Ala Asn Ile Gln Phe Arg Thr Asp Ile Ala Arg Thr Glu Tyr Leu
 3540 3545 3550
 Ser Asn Ala Asp Glu Arg Leu Arg Trp Gln Ala Ser Ser Leu Pro Ala
 3555 3560 3565
 Asp Asp Leu Cys Thr Glu Asn Ala Ile Met Leu Lys Arg Phe Asn Arg
 3570 3575 3580
 Tyr Pro Leu Ile Ile Asp Pro Ser Gly Gln Ala Thr Glu Phe Ile Met
 3585 3590 3595 3600
 Asn Glu Tyr Lys Asp Arg Lys Ile Thr Arg Thr Ser Phe Leu Asp Asp
 3605 3610 3615
 Ala Phe Arg Lys Asn Leu Glu Ser Ala Leu Arg Phe Gly Asn Pro Leu
 3620 3625 3630
 Leu Val Gln Asp Val Glu Ser Tyr Asp Pro Val Leu Asn Pro Val Leu
 3635 3640 3645
 Asn Arg Glu Val Arg Arg Thr Gly Gly Arg Val Leu Ile Thr Leu Gly
 3650 3655 3660
 Asp Gln Asp Ile Asp Leu Ser Pro Ser Phe Val Ile Phe Leu Ser Thr
 3665 3670 3675 3680
 Arg Asp Pro Thr Val Glu Phe Pro Pro Asp Leu Cys Ser Arg Val Thr
 3685 3690 3695
 Phe Val Asn Phe Thr Val Thr Arg Ser Ser Leu Gln Ser Gln Cys Leu
 3700 3705 3710
 Asn Glu Val Leu Lys Ala Glu Arg Pro Asp Val Asp Glu Lys Arg Ser
 3715 3720 3725
 Asp Leu Leu Lys Leu Gln Gly Glu Phe Gln Leu Arg Leu Arg Gln Leu
 3730 3735 3740
 Glu Lys Ser Leu Leu Gln Ala Leu Asn Glu Val Lys Gly Arg Ile Leu
 3745 3750 3755 3760
 Asp Asp Asp Thr Ile Ile Thr Thr Leu Glu Asn Leu Lys Arg Glu Ala
 3765 3770 3775
 Ala Glu Val Thr Arg Lys Val Glu Glu Thr Asp Ile Val Met Gln Glu
 3780 3785 3790
 Val Glu Thr Val Ser Gln Gln Tyr Leu Pro Leu Ser Thr Ala Cys Ser
 3795 3800 3805
 Ser Ile Tyr Phe Thr Met Glu Ser Leu Lys Gln Ile His Phe Leu Tyr
 3810 3815 3820
 Gln Tyr Ser Leu Gln Phe Phe Leu Asp Ile Tyr His Asn Val Leu Tyr
 3825 3830 3835 3840
 Glu Asn Pro Asn Leu Lys Gly Val Thr Asp His Thr Gln Arg Leu Ser
 3845 3850 3855
 Ile Ile Thr Lys Asp Leu Phe Gln Val Ala Phe Asn Arg Val Ala Arg
 3860 3865 3870
 Gly Met Leu His Gln Asp His Ile Thr Phe Ala Met Leu Leu Ala Arg

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3875	3880	3885	
Ile Lys Leu Lys Gly Thr Val	Gly Glu Pro Thr Tyr Asp Ala Glu Phe		
3890	3895	3900	
Gln His Phe Leu Arg Gly Asn Glu Ile Val	Leu Ser Ala Gly Ser Thr		
3905	3910	3915	3920
Pro Arg Ile Gln Gly Leu Thr Val Glu	Gln Ala Glu Ala Val Val Arg		
3925	3930	3935	
Leu Ser Cys Leu Pro Ala Phe Lys Asp	Leu Ile Ala Lys Val Gln Ala		
3940	3945	3950	
Asp Glu Gln Phe Gly Ile Trp Leu Asp Ser Ser	Ser Pro Glu Gln Thr		
3955	3960	3965	
Val Pro Tyr Leu Trp Ser Glu Glu Thr Pro Ala Thr Pro Ile Gly Gln			
3970	3975	3980	
Ala Ile His Arg Leu Leu Ile Gln Ala Phe Arg Pro Asp Arg Leu			
3985	3990	3995	4000
Leu Ala Met Ala His Met Phe Val Ser Thr Asn Leu Gly Glu Ser Phe			
4005	4010	4015	
Met Ser Ile Met Glu Gln Pro Leu Asp Leu Thr His Ile Val Gly Thr			
4020	4025	4030	
Glu Val Lys Pro Asn Thr Pro Val Leu Met Cys Ser Val Pro Gly Tyr			
4035	4040	4045	
Asp Ala Ser Gly His Val Glu Asp Leu Ala Ala Glu Gln Asn Thr Gln			
4050	4055	4060	
Ile Thr Ser Ile Ala Ile Gly Ser Ala Glu Gly Phe Asn Gln Ala Asp			
4065	4070	4075	4080
Lys Ala Ile Asn Thr Ala Val Lys Ser Gly Arg Trp Val Met Leu Lys			
4085	4090	4095	
Asn Val His Leu Ala Pro Gly Trp Leu Met Gln Leu Glu Lys Lys Leu			
4100	4105	4110	
His Ser Leu Gln Pro His Ala Cys Phe Arg Leu Phe Leu Thr Met Glu			
4115	4120	4125	
Ile Asn Pro Lys Val Pro Val Asn Leu Leu Arg Ala Gly Arg Ile Phe			
4130	4135	4140	
Val Phe Glu Pro Pro Gly Val Lys Ala Asn Met Leu Arg Thr Phe			
4145	4150	4155	4160
Ser Ser Ile Pro Val Ser Arg Ile Cys Lys Ser Pro Asn Glu Arg Ala			
4165	4170	4175	
Arg Leu Tyr Phe Leu Leu Ala Trp Phe His Ala Ile Ile Gln Glu Arg			
4180	4185	4190	
Leu Arg Tyr Ala Pro Leu Gly Trp Ser Lys Lys Tyr Glu Phe Gly Glu			
4195	4200	4205	
Ser Asp Leu Arg Ser Ala Cys Asp Thr Val Asp Thr Trp Leu Asp Asp			
4210	4215	4220	
Thr Ala Lys Ala Ser Gly Arg Gln Asn Ile Ser Pro Asp Lys Ile Pro			
4225	4230	4235	4240
Trp Ser Ala Leu Lys Thr Leu Met Ala Gln Ser Ile Tyr Gly Gly Arg			
4245	4250	4255	
Val Asp Asn Glu Phe Asp Gln Arg Leu Leu Asn Thr Phe Leu Glu Arg			
4260	4265	4270	
Leu Phe Thr Thr Arg Ser Phe Asp Ser Glu Phe Lys Leu Ala Cys Lys			
4275	4280	4285	
Val Asp Gly His Lys Asp Ile Gln Met Pro Asp Gly Ile Arg Arg Glu			
4290	4295	4300	
Glu Phe Val Gln Trp Val Glu Leu Leu Pro Asp Thr Gln Thr Pro Ser			
4305	4310	4315	4320
Trp Leu Gly Leu Pro Asn Asn Ala Glu Arg Val Leu Leu Thr Thr Gln			
4325	4330	4335	
Gly Val Asp Met Ile Ser Lys Met Leu Lys Met Gln Met Leu Glu Asp			
4340	4345	4350	
Glu Asp Asp Leu Ala Tyr Ala Glu Thr Glu Lys Lys Thr Arg Thr Asp			
4355	4360	4365	
Ser Thr Ser Asp Gly Arg Pro Ala Trp Met Arg Thr Leu His Thr Thr			
4370	4375	4380	

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Ala Ser Asn Trp Leu His Leu Ile Pro Gln Thr Leu Ser His Leu Lys
 4385 4390 4395 4400
 Arg Thr Val Glu Asn Ile Lys Asp Pro Leu Phe Arg Phe Phe Glu Arg
 4405 4410 4415
 Glu Val Lys Met Gly Ala Lys Leu Leu Gln Asp Val Arg Gln Asp Leu
 4420 4425 4430
 Ala Asp Val Val Gln Val Cys Glu Gly Lys Lys Lys Gln Thr Asn Tyr
 4435 4440 4445
 Leu Arg Thr Leu Ile Asn Glu Leu Val Lys Gly Ile Leu Pro Arg Ser
 4450 4455 4460
 Trp Ser His Tyr Thr Val Pro Ala Gly Met Thr Val Ile Gln Trp Val
 4465 4470 4475 4480
 Ser Asp Phe Ser Glu Arg Ile Lys Gln Leu Gln Asn Ile Ser Leu Ala
 4485 4490 4495
 Ala Ala Ser Gly Gly Ala Lys Glu Leu Lys Asn Ile His Val Cys Leu
 4500 4505 4510
 Gly Gly Leu Phe Val Pro Glu Ala Tyr Ile Thr Ala Thr Arg Gln Tyr
 4515 4520 4525
 Val Ala Gln Ala Asn Ser Trp Ser Leu Glu Glu Leu Cys Leu Glu Val
 4530 4535 4540
 Asn Val Thr Thr Ser Gln Gly Ala Thr Leu Asp Ala Cys Ser Phe Gly
 4545 4550 4555 4560
 Val Thr Gly Leu Lys Leu Gln Gly Ala Thr Cys Asn Asn Asn Lys Leu
 4565 4570 4575
 Ser Leu Ser Asn Ala Ile Ser Thr Ala Leu Pro Leu Thr Gln Leu Arg
 4580 4585 4590
 Trp Val Lys Gln Thr Asn Thr Glu Lys Lys Ala Ser Val Val Thr Leu
 4595 4600 4605
 Pro Val Tyr Leu Asn Phe Thr Arg Ala Asp Leu Ile Phe Thr Val Asp
 4610 4615 4620
 Phe Glu Ile Ala Thr Lys Glu Asp Pro Arg Ser Phe Tyr Glu Arg Gly
 4625 4630 4635 4640
 Val Ala Val Leu Cys Thr Glu
 4645

<210> 41
 <211> 1232
 <212> PRT
 <213> Homo sapiens

<400> 41
 Met Ala Asn Gly Val Ile Pro Pro Pro Gly Gly Ala Ser Pro Leu Pro
 1 5 10 15
 Gln Val Arg Val Pro Leu Glu Glu Pro Pro Leu Ser Pro Asp Val Glu
 20 25 30
 Glu Glu Asp Asp Asp Leu Gly Lys Thr Leu Ala Val Ser Arg Phe Gly
 35 40 45
 Asp Leu Ile Ser Lys Pro Pro Ala Trp Asp Pro Glu Lys Pro Ser Arg
 50 55 60
 Ser Tyr Ser Glu Arg Asp Phe Glu Phe His Arg His Thr Ser His His
 65 70 75 80
 Thr His His Pro Leu Ser Ala Arg Leu Pro Pro Pro His Lys Leu Arg
 85 90 95
 Arg Leu Pro Pro Thr Ser Ala Arg His Thr Arg Arg Lys Arg Lys Lys
 100 105 110
 Glu Lys Thr Ser Ala Pro Pro Ser Glu Gly Thr Pro Pro Ile Gln Glu
 115 120 125
 Glu Gly Gly Ala Gly Val Asp Glu Glu Glu Glu Glu Glu Glu Glu
 130 135 140
 Glu Gly Glu Ser Glu Ala Glu Pro Val Glu Pro Pro His Ser Gly Thr
 145 150 155 160
 Pro Gln Lys Ala Lys Phe Ser Ile Gly Ser Asp Glu Asp Asp Ser Pro
 165 170 175

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Gly Leu Pro Gly Arg Ala Ala Val Thr Lys Pro Leu Pro Ser Val Gly
 180 185 190
 Pro His Thr Asp Lys Ser Pro Gln His Ser Ser Ser Ser Pro Ser Pro
 195 200 205
 Arg Ala Arg Ala Ser Arg Leu Ala Gly Glu Lys Ser Arg Pro Trp Ser
 210 215 220
 Pro Ser Ala Ser Tyr Asp Leu Arg Glu Arg Leu Cys Pro Gly Ser Ala
 225 230 235 240
 Leu Gly Asn Pro Gly Gly Pro Glu Gln Gln Val Pro Thr Asp Glu Ala
 245 250 255
 Glu Ala Gln Met Leu Gly Ser Ala Asp Leu Asp Asp Met Lys Ser His
 260 265 270
 Arg Leu Glu Asp Asn Pro Gly Val Arg Arg His Leu Val Lys Lys Pro
 275 280 285
 Ser Arg Thr Gln Gly Gly Arg Gly Ser Pro Ser Gly Leu Ala Pro Ile
 290 295 300
 Leu Arg Arg Lys Lys Lys Lys Leu Asp Arg Arg Pro His Glu
 305 310 315 320
 Val Phe Val Glu Leu Asn Glu Leu Met Leu Asp Arg Ser Gln Glu Pro
 325 330 335
 His Trp Arg Glu Thr Ala Arg Trp Ile Lys Phe Glu Glu Asp Val Glu
 340 345 350
 Glu Glu Thr Glu Arg Trp Gly Lys Pro His Val Ala Ser Leu Ser Phe
 355 360 365
 Arg Ser Leu Leu Glu Leu Arg Arg Thr Ile Ala His Gly Ala Ala Leu
 370 375 380
 Leu Asp Leu Glu Gln Thr Thr Leu Pro Gly Ile Ala His Leu Val Val
 385 390 395 400
 Glu Thr Met Ile Val Ser Asp Gln Ile Arg Pro Glu Asp Arg Ala Ser
 405 410 415
 Val Leu Arg Thr Leu Leu Lys His Ser His Pro Asn Asp Asp Lys
 420 425 430
 Asp Ser Gly Phe Phe Pro Arg Asn Pro Ser Ser Ser Ser Met Asn Ser
 435 440 445
 Val Leu Gly Asn His His Pro Thr Pro Ser His Gly Pro Asp Gly Ala
 450 455 460
 Val Pro Thr Met Ala Asp Asp Leu Gly Glu Pro Ala Pro Leu Trp Pro
 465 470 475 480
 His Asp Pro Asp Ala Lys Glu Lys Pro Leu His Met Pro Gly Gly Asp
 485 490 495
 Gly His Arg Gly Lys Ser Leu Lys Leu Leu Glu Lys Ile Pro Glu Asp
 500 505 510
 Ala Glu Ala Thr Val Val Leu Val Gly Cys Val Pro Phe Leu Glu Gln
 515 520 525
 Pro Ala Ala Ala Phe Val Arg Leu Asn Glu Ala Val Leu Leu Glu Ser
 530 535 540
 Val Leu Glu Val Pro Val Pro Val Arg Phe Leu Phe Val Met Leu Gly
 545 550 555 560
 Pro Ser His Thr Ser Thr Asp Tyr His Glu Leu Gly Arg Ser Ile Ala
 565 570 575
 Thr Leu Met Ser Asp Lys Leu Phe His Glu Ala Ala Tyr Gln Ala Asp
 580 585 590
 Asp Arg Gln Asp Leu Leu Ser Ala Ile Ser Glu Phe Leu Asp Gly Ser
 595 600 605
 Ile Val Ile Pro Pro Ser Glu Val Glu Gly Arg Asp Leu Leu Arg Ser
 610 615 620
 Val Ala Ala Phe Gln Arg Glu Leu Leu Arg Lys Arg Arg Glu Arg Glu
 625 630 635 640
 Gln Thr Lys Val Glu Met Thr Thr Arg Gly Gly Tyr Thr Ala Pro Gly
 645 650 655
 Lys Glu Leu Ser Leu Glu Leu Gly Gly Ser Glu Ala Thr Pro Glu Asp
 660 665 670
 Asp Pro Leu Leu Arg Thr Gly Ser Val Phe Gly Gly Leu Val Arg Asp

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675	680	685
Val Arg Arg Arg Tyr Pro His	Tyr Pro Ser Asp	Leu Arg Asp Ala Leu
690	695	700
His Ser Gln Cys Val Ala Ala	Val Leu Phe Ile	Tyr Phe Ala Ala Leu
705	710	715
Ser Pro Ala Ile Thr Phe Gly	Gly Leu Leu Gly	Glu Lys Thr Glu Gly
725	730	735
Leu Met Gly Val Ser Glu Leu	Ile Val Ser Thr Ala Val	Leu Gly Val
740	745	750
Leu Phe Ser Leu Leu Gly Ala	Gln Pro Leu Leu Val	Val Gly Phe Ser
755	760	765
Gly Pro Leu Leu Val Phe Glu	Glu Ala Phe Phe Lys	Phe Cys Arg Ala
770	775	780
Gln Asp Leu Glu Tyr Leu	Thr Gly Arg Val Trp Val	Gly Leu Trp Leu
785	790	795
Val Val Phe Val Leu Ala Leu	Val Ala Glu Gly Ser Phe	Leu Val
805	810	815
Arg Tyr Ile Ser Pro Phe Thr	Gln Glu Ile Phe Ala Phe	Leu Ile Ser
820	825	830
Leu Ile Phe Ile Tyr Glu Thr	Phe Tyr Lys Leu Tyr Lys	Val Phe Thr
835	840	845
Glu His Pro Leu Leu Pro Phe	Tyr Pro Pro Glu Gly	Ala Leu Glu Gly
850	855	860
Ser Leu Asp Ala Gly Leu	Glu Pro Asn Gly Ser Ala	Leu Pro Pro Thr
865	870	875
Glu Gly Pro Pro Ser Pro Arg	Asn Gln Pro Asn Thr	Ala Leu Leu Ser
885	890	895
Leu Ile Leu Met Leu Gly	Thr Phe Phe Ile Ala Phe	Phe Leu Arg Lys
900	905	910
Phe Arg Asn Ser Arg Phe	Leu Gly Lys Ala Arg Arg	Ile Ile Gly
915	920	925
Asp Phe Gly Ile Pro Ile	Ser Ile Leu Val Met Val	Leu Val Asp Tyr
930	935	940
Ser Ile Thr Asp Thr Tyr	Gln Lys Leu Thr Val	Pro Thr Gly Leu
945	950	955
Ser Val Thr Ser Pro Asp	Lys Arg Ser Trp Phe Ile	Pro Pro Leu Gly
965	970	975
Ser Ala Arg Pro Phe Pro	Pro Trp Met Met Val	Ala Ala Val Pro
980	985	990
Ala Leu Leu Val Leu Ile	Leu Ile Phe Met Glu Thr	Gln Ile Thr Ala
995	1000	1005
Leu Ile Val Ser Gln Lys	Ala Arg Arg Leu Leu	Lys Gly Ser Gly Phe
1010	1015	1020
His Leu Asp Leu Leu	Ile Gly Ser Leu Gly	Gly Leu Cys Gly Leu
1025	1030	1035
Phe Gly Leu Pro Trp	Leu Thr Ala Ala Thr Val	Arg Ser Val Thr His
1045	1050	1055
Val Asn Ala Leu Thr	Val Met Arg Thr Ala Ile	Ala Pro Gly Asp Lys
1060	1065	1070
Pro Gln Ile Gln Glu	Val Arg Glu Gln Arg Val	Thr Gly Val Leu Ile
1075	1080	1085
Ala Ser Leu Val Gly	Leu Ser Ile Val Met Gly	Ala Val Leu Arg Arg
1090	1095	1100
Ile Pro Leu Ala Val	Leu Phe Gly Ile Phe	Leu Tyr Met Gly Val Thr
1105	1110	1115
Ser Leu Ser Gly Ile	Gln Leu Ser Gln Arg	Leu Leu Ile Leu Met
1125	1130	1135
Pro Ala Lys His His	Pro Glu Gln Pro Tyr	Val Thr Lys Val Lys Thr
1140	1145	1150
Trp Arg Met His Leu	Phe Thr Cys Ile Gln	Leu Gly Cys Ile Ala Leu
1155	1160	1165
Leu Trp Val Val Lys	Ser Thr Ala Ala Ser	Leu Ala Phe Pro Phe Leu
1170	1175	1180

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Leu Leu Leu Thr Val Pro Leu Arg His Cys Leu Leu Pro Arg Leu Phe
 1185 1190 1195 1200
 Gln Asp Arg Glu Leu Gln Ala Leu Asp Ser Glu Asp Ala Glu Pro Asn
 1205 1210 1215
 Phe Asp Glu Asp Gly Gln Asp Glu Tyr Asn Glu Leu His Met Pro Val
 1220 1225 1230

<210> 42
 <211> 1515

<212> PRT

<213> Homo sapiens

<400> 42
 Asp Trp Asn Val Thr Trp Asn Thr Ser Asn Pro Asp Phe Thr Lys Cys
 1 5 10 15
 Phe Gln Asn Thr Val Leu Val Trp Val Pro Cys Phe Tyr Leu Trp Ala
 20 25 30
 Cys Phe Pro Phe Tyr Phe Leu Tyr Leu Ser Arg His Asp Arg Gly Tyr
 35 40 45
 Ile Gln Met Thr Pro Leu Asn Lys Thr Lys Thr Ala Leu Gly Phe Leu
 50 55 60
 Leu Trp Ile Val Cys Trp Ala Asp Leu Phe Tyr Ser Phe Trp Glu Arg
 65 70 75 80
 Ser Arg Gly Ile Phe Leu Ala Pro Val Phe Leu Val Ser Pro Thr Leu
 85 90 95
 Leu Gly Ile Thr Met Leu Leu Ala Thr Phe Leu Ile Gln Leu Glu Arg
 100 105 110
 Arg Lys Gly Val Gln Ser Ser Gly Ile Met Leu Thr Phe Trp Leu Val
 115 120 125
 Ala Leu Val Cys Ala Leu Ala Ile Leu Arg Ser Lys Ile Met Thr Ala
 130 135 140
 Leu Lys Glu Asp Ala Gln Val Asp Leu Phe Arg Asp Ile Thr Phe Tyr
 145 150 155 160
 Val Tyr Phe Ser Leu Leu Ile Gln Leu Val Leu Ser Cys Phe Ser
 165 170 175
 Asp Arg Ser Pro Leu Phe Ser Glu Thr Ile His Asp Pro Asn Pro Cys
 180 185 190
 Pro Glu Ser Ser Ala Ser Phe Leu Ser Arg Ile Thr Phe Trp Trp Ile
 195 200 205
 Thr Gly Leu Ile Val Arg Gly Tyr Arg Gln Pro Leu Glu Gly Ser Asp
 210 215 220
 Leu Trp Ser Leu Asn Lys Glu Asp Thr Ser Glu Gln Val Val Pro Val
 225 230 235 240
 Leu Val Lys Asn Trp Lys Lys Glu Cys Ala Lys Thr Arg Lys Gln Pro
 245 250 255
 Val Lys Val Val Tyr Ser Ser Lys Asp Pro Ala Gln Pro Lys Glu Ser
 260 265 270
 Ser Lys Val Asp Ala Asn Glu Glu Val Glu Ala Leu Ile Val Lys Ser
 275 280 285
 Pro Gln Lys Glu Trp Asn Pro Ser Leu Phe Lys Val Leu Tyr Lys Thr
 290 295 300
 Phe Gly Pro Tyr Phe Leu Met Ser Phe Phe Phe Lys Ala Ile His Asp
 305 310 315 320
 Leu Met Met Phe Ser Gly Pro Gln Ile Leu Lys Leu Ile Lys Phe
 325 330 335
 Val Asn Asp Thr Lys Ala Pro Asp Trp Gln Gly Tyr Phe Tyr Thr Val
 340 345 350
 Leu Leu Phe Val Thr Ala Cys Leu Gln Thr Leu Val Leu His Gln Tyr
 355 360 365
 Phe His Ile Cys Phe Val Ser Gly Met Arg Ile Lys Thr Ala Val Ile
 370 375 380
 Gly Ala Val Tyr Arg Lys Ala Leu Val Ile Thr Asn Ser Ala Arg Lys
 385 390 395 400

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Ser Ser Thr Val Gly Glu Ile Val Asn Leu Met Ser Val Asp Ala Gln
 405 410 415
 Arg Phe Met Asp Leu Ala Thr Tyr Ile Asn Met Ile Trp Ser Ala Pro
 420 425 430
 Leu Gln Val Ile Leu Ala Leu Tyr Leu Leu Trp Leu Asn Leu Gly Pro
 435 440 445
 Ser Val Leu Ala Gly Val Ala Val Met Val Leu Met Val Pro Val Asn
 450 455 460
 Ala Val Met Ala Met Lys Thr Lys Thr Tyr Gln Val Ala His Met Lys
 465 470 475 480
 Ser Lys Asp Asn Arg Ile Lys Leu Met Asn Glu Ile Leu Asn Gly Ile
 485 490 495
 Lys Val Leu Lys Leu Tyr Ala Trp Glu Leu Ala Phe Lys Asp Lys Val
 500 505 510
 Leu Ala Ile Arg Gln Glu Glu Leu Lys Val Leu Lys Lys Ser Ala Tyr
 515 520 525
 Leu Ser Ala Val Gly Thr Phe Thr Trp Val Cys Thr Pro Phe Leu Val
 530 535 540
 Ala Leu Cys Thr Phe Ala Val Tyr Val Thr Ile Asp Glu Asn Asn Ile
 545 550 555 560
 Leu Asp Ala Gln Thr Ala Phe Val Ser Leu Ala Leu Phe Asn Ile Leu
 565 570 575
 Arg Phe Pro Leu Asn Ile Leu Pro Met Val Ile Ser Ser Ile Val Gln
 580 585 590
 Ala Ser Val Ser Leu Lys Arg Leu Arg Ile Phe Leu Ser His Glu Glu
 595 600 605
 Leu Glu Pro Asp Ser Ile Glu Arg Arg Pro Val Lys Asp Gly Gly
 610 615 620
 Thr Asn Ser Ile Thr Val Arg Asn Ala Thr Phe Thr Trp Ala Arg Ser
 625 630 635 640
 Asp Pro Pro Thr Leu Asn Gly Ile Thr Phe Ser Ile Pro Glu Gly Ala
 645 650 655
 Leu Val Ala Val Val Gly Gln Val Gly Cys Gly Lys Ser Ser Leu Leu
 660 665 670
 Ser Ala Leu Leu Ala Glu Met Asp Lys Val Glu Gly His Val Ala Ile
 675 680 685
 Lys Gly Ser Val Ala Tyr Val Pro Gln Gln Ala Trp Ile Gln Asn Asp
 690 695 700
 Ser Leu Arg Glu Asn Ile Leu Phe Gly Cys Gln Leu Glu Glu Pro Tyr
 705 710 715 720
 Tyr Arg Ser Val Ile Gln Ala Cys Ala Leu Leu Pro Asp Leu Glu Ile
 725 730 735
 Leu Pro Ser Gly Asp Arg Thr Glu Ile Gly Glu Lys Gly Val Asn Leu
 740 745 750
 Ser Gly Gly Gln Lys Gln Arg Val Ser Leu Ala Arg Ala Val Tyr Ser
 755 760 765
 Asn Ala Asp Ile Tyr Leu Phe Asp Asp Pro Leu Ser Ala Val Asp Ala
 770 775 780
 His Val Gly Lys His Ile Phe Glu Asn Val Ile Gly Pro Lys Gly Met
 785 790 795 800
 Leu Lys Asn Lys Thr Arg Ile Leu Val Thr His Ser Met Ser Tyr Leu
 805 810 815
 Pro Gln Val Asp Val Ile Ile Val Met Ser Gly Gly Lys Ile Ser Glu
 820 825 830
 Met Gly Ser Tyr Gln Glu Leu Leu Ala Arg Asp Gly Ala Phe Ala Glu
 835 840 845
 Phe Leu Arg Thr Tyr Ala Ser Thr Glu Gln Glu Gln Asp Ala Glu Glu
 850 855 860
 Asn Gly Val Thr Gly Val Ser Gly Pro Gly Lys Glu Ala Lys Gln Met
 865 870 875 880
 Glu Asn Gly Met Leu Val Thr Asp Ser Ala Gly Lys Gln Leu Gln Arg
 885 890 895
 Gln Leu Ser Ser Ser Ser Tyr Ser Gly Asp Ile Ser Arg His His

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	900	905	910
Asn Ser Thr Ala Glu Leu Gln Lys	Ala Glu Ala Lys Lys	Glu Glu Thr	
915 920 925	920 925		
Trp Lys Leu Met Glu Ala Asp Lys	Ala Gln Thr Gly Gln Val Lys Leu		
930 935 940	935 940		
Ser Val Tyr Trp Asp Tyr Met Lys	Ala Ile Gly Leu Phe Ile Ser Phe		
945 950 955 960	950 955 960		
Leu Ser Ile Phe Leu Phe Met Cys	Asn His Val Ser Ala Leu Ala Ser		
965 970 975	970 975		
Asn Tyr Trp Leu Ser Leu Trp Thr	Asp Asp Pro Ile Val Asn Gly Thr		
980 985 990	985 990		
Gln Glu His Thr Lys Val Arg	Leu Ser Val Tyr Gly Ala Leu Gly Ile		
995 1000 1005	995 1000 1005		
Ser Gln Gly Ile Ala Val Phe	Gly Tyr Ser Met Ala Val Ser Ile Gly		
1010 1015 1020	1015 1020		
Gly Ile Leu Ala Ser Arg	Cys Leu His Val Asp Leu Leu His Ser Ile		
1025 1030 1035 1040	1025 1030 1035 1040		
Leu Arg Ser Pro Met Ser Phe	Phe Glu Arg Thr Pro Ser Gly Asn Leu		
1045 1050 1055	1045 1050 1055		
Val Asn Arg Phe Ser Lys Glu	Leu Asp Thr Val Asp Ser Met Ile Pro		
1060 1065 1070	1060 1065 1070		
Glu Val Ile Lys Met Phe Met	Gly Ser Leu Phe Asn Val Ile Gly Ala		
1075 1080 1085	1075 1080 1085		
Cys Ile Val Ile Leu Leu Ala	Thr Pro Ile Ala Ala Ile Ile Ile Pro		
1090 1095 1100	1090 1095 1100		
Pro Leu Gly Leu Ile Tyr	Phe Phe Val Gln Arg Phe Tyr Val Ala Ser		
1105 1110 1115 1120	1105 1110 1115 1120		
Ser Arg Gln Leu Lys Arg	Leu Glu Ser Val Ser Arg Ser Pro Val Tyr		
1125 1130 1135	1125 1130 1135		
Ser His Phe Asn Glu Thr	Leu Leu Gly Val Ser Val Ile Arg Ala Phe		
1140 1145 1150	1140 1145 1150		
Glu Glu Gln Glu Arg Phe	Ile His Gln Ser Asp Leu Lys Val Asp Glu		
1155 1160 1165	1155 1160 1165		
Asn Gln Lys Ala Tyr Tyr	Pro Ser Ile Val Ala Asn Arg Trp Leu Ala		
1170 1175 1180	1170 1175 1180		
Val Arg Leu Glu Cys Val	Gly Asn Cys Ile Val Leu Phe Ala Ala Leu		
1185 1190 1195 1200	1185 1190 1195 1200		
Phe Ala Val Ile Ser Arg	His Ser Leu Ser Ala Gly Leu Val Gly Leu		
1205 1210 1215	1205 1210 1215		
Ser Val Ser Tyr Ser Leu Gln Val	Thr Thr Tyr Leu Asn Trp Leu Val		
1220 1225 1230	1220 1225 1230		
Arg Met Ser Ser Glu Met Glu	Thr Asn Ile Val Ala Val Glu Arg Leu		
1235 1240 1245	1235 1240 1245		
Lys Glu Tyr Ser Glu Thr Glu	Lys Glu Ala Pro Trp Gln Ile Gln Glu		
1250 1255 1260	1250 1255 1260		
Thr Ala Pro Pro Ser Ser	Trp Pro Gln Val Gly Arg Val Glu Phe Arg		
1265 1270 1275 1280	1265 1270 1275 1280		
Asn Tyr Cys Leu Arg Tyr Arg	Glu Asp Leu Asp Phe Val Leu Arg His		
1285 1290 1295	1285 1290 1295		
Ile Asn Val Thr Ile Asn Gly	Gly Glu Lys Val Gly Ile Val Gly Arg		
1300 1305 1310	1300 1305 1310		
Thr Gly Ala Gly Lys Ser Ser	Leu Thr Leu Gly Leu Phe Arg Ile Asn		
1315 1320 1325	1315 1320 1325		
Glu Ser Ala Glu Gly Glu	Ile Ile Ile Asp Gly Ile Asn Ile Ala Lys		
1330 1335 1340	1330 1335 1340		
Ile Gly Leu His Asp Leu Arg	Phe Lys Ile Ile Pro Gln Asp		
1345 1350 1355 1360	1345 1350 1355 1360		
Pro Val Leu Phe Ser Gly Ser	Leu Arg Met Asn Leu Asp Pro Phe Ser		
1365 1370 1375	1365 1370 1375		
Gln Tyr Ser Asp Glu Glu Val	Trp Thr Ser Leu Glu Leu Ala His Leu		
1380 1385 1390	1380 1385 1390		
Lys Asp Phe Val Ser Ala Leu	Pro Asp Lys Leu Asp His Glu Cys Ala		
1395 1400 1405	1395 1400 1405		

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Glu Gly Gly Glu Asn Leu Ser Val Gly Gln Arg Gln Leu Val Cys Leu
 1410 1415 1420
 Ala Arg Ala Leu Leu Arg Lys Thr Lys Ile Leu Val Leu Asp Glu Ala
 1425 1430 1435 1440
 Thr Ala Ala Val Asp Leu Glu Thr Asp Asp Leu Ile Gln Ser Thr Ile
 1445 1450 1455
 Arg Thr Gln Phe Glu Asp Cys Thr Val Leu Thr Ile Ala His Arg Leu
 1460 1465 1470
 Asn Thr Ile Met Asp Tyr Thr Arg Val Ile Val Leu Asp Lys Gly Glu
 1475 1480 1485
 Ile Gln Glu Tyr Gly Ala Pro Ser Asp Leu Leu Gln Gln Arg Gly Leu
 1490 1495 1500
 Phe Tyr Ser Met Ala Lys Asp Ala Gly Leu Val
 1505 1510 1515

<210> 43

<211> 357

<212> PRT

<213> Homo sapiens

<400> 43

Phe Cys Arg Ala Gln Asp Leu Glu Tyr Leu Thr Gly Arg Val Trp Val
 1 5 10 15
 Gly Leu Trp Leu Val Val Phe Val Leu Ala Leu Val Ala Ala Glu Gly
 20 25 30
 Ser Phe Leu Val Arg Tyr Ile Ser Pro Phe Thr Gln Glu Ile Phe Ala
 35 40 45
 Phe Leu Ile Ser Leu Ile Phe Ile Tyr Glu Thr Phe Tyr Lys Leu Tyr
 50 55 60
 Lys Val Phe Thr Glu His Pro Leu Leu Pro Phe Tyr Pro Pro Glu Pro
 65 70 75 80
 Gly Gly Val Pro Gly Cys Trp Ser Gly Ala Lys Trp Gln Leu Pro Pro
 85 90 95
 Thr Glu Gly Pro Pro Ser Pro Arg Asn Gln Pro Asn Thr Ala Leu Leu
 100 105 110
 Ser Leu Ile Leu Met Leu Gly Thr Phe Phe Ile Ala Phe Phe Leu Arg
 115 120 125
 Lys Phe Arg Asn Ser Arg Phe Leu Gly Gly Lys Ala Arg Arg Arg Ile Ile
 130 135 140
 Gly Asp Phe Gly Ile Pro Ile Ser Ile Leu Val Met Val Leu Val Asp
 145 150 155 160
 Tyr Ser Ile Thr Asp Thr Tyr Thr Gln Lys Leu Thr Val Pro Thr Gly
 165 170 175
 Leu Ser Val Thr Ser Pro Asp Lys Arg Ser Trp Phe Ile Pro Pro Leu
 180 185 190
 Gly Ser Ala Arg Pro Phe Pro Pro Trp Met Met Val Ala Ala Ala Val
 195 200 205
 Pro Ala Leu Leu Val Leu Ile Leu Ile Phe Met Glu Thr Gln Ile Thr
 210 215 220
 Ala Leu Ile Val Ser Gln Lys Ala Arg Arg Leu Leu Lys Gly Ser Gly
 225 230 235 240
 Phe His Leu Asp Leu Leu Leu Ile Gly Ser Leu Gly Gly Leu Cys Gly
 245 250 255
 Leu Phe Gly Leu Pro Trp Leu Thr Ala Ala Thr Val Arg Ser Val Thr
 260 265 270
 His Val Asn Ala Leu Thr Val Met Arg Thr Ala Ile Ala Pro Gly Asp
 275 280 285
 Lys Pro Gln Ile Gln Glu Val Arg Glu Gln Arg Val Thr Gly Val Leu
 290 295 300
 Ile Ala Ser Leu Val Gly Leu Ser Ile Val Met Gly Ala Val Leu Arg
 305 310 315 320
 Arg Ile Pro Leu Ala Val Leu Phe Gly Ile Phe Leu Tyr Met Gly Val
 325 330 335

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Thr Ser Leu Ser Gly Ile Gln Leu Ser Gln Arg Leu Leu Leu Ile Leu
 340 345 350
 Met Pro Ala Lys His
 355

<210> 44
 <211> 2147
 <212> PRT
 <213> Homo sapiens

<400> 44
 Met Ala Phe Trp Thr Gln Leu Met Leu Leu Leu Trp Lys Asn Phe Met
 1 5 10 15
 Tyr Arg Arg Arg Gln Pro Val Gln Leu Leu Val Glu Leu Leu Trp Pro
 20 25 30
 Leu Phe Leu Phe Phe Ile Leu Val Ala Val Arg His Ser His Pro Pro
 35 40 45
 Leu Glu His His Glu Cys His Phe Pro Asn Lys Pro Leu Pro Ser Ala
 50 55 60
 Gly Thr Val Pro Trp Leu Gln Gly Leu Ile Cys Asn Val Asn Asn Thr
 65 70 75 80
 Cys Phe Pro Gln Leu Thr Pro Gly Glu Glu Pro Gly Arg Leu Ser Asn
 85 90 95
 Phe Asn Asp Ser Leu Val Ser Arg Leu Leu Ala Asp Ala Arg Thr Val
 100 105 110
 Leu Gly Gly Ala Ser Ala His Arg Thr Leu Ala Gly Leu Gly Lys Leu
 115 120 125
 Ile Ala Thr Leu Arg Ala Ala Arg Ser Thr Ala Gln Pro Gln Pro Thr
 130 135 140
 Lys Gln Ser Pro Leu Glu Pro Pro Met Leu Asp Val Ala Glu Leu Leu
 145 150 155 160
 Thr Ser Leu Leu Arg Thr Glu Ser Leu Gly Leu Ala Leu Gly Gln Ala
 165 170 175
 Gln Glu Pro Leu His Ser Leu Leu Glu Ala Ala Glu Asp Leu Ala Gln
 180 185 190
 Glu Leu Leu Ala Leu Arg Ser Leu Val Glu Leu Arg Ala Leu Leu Gln
 195 200 205
 Arg Pro Arg Gly Thr Ser Gly Pro Leu Glu Leu Leu Ser Glu Ala Leu
 210 215 220
 Cys Ser Val Arg Gly Pro Ser Ser Thr Val Gly Pro Ser Leu Asn Trp
 225 230 235 240
 Tyr Glu Ala Ser Asp Leu Met Glu Leu Val Gly Gln Glu Pro Glu Ser
 245 250 255
 Ala Leu Pro Asp Ser Ser Leu Ser Pro Ala Cys Ser Glu Leu Ile Gly
 260 265 270
 Ala Leu Asp Ser His Pro Leu Ser Arg Leu Leu Trp Arg Arg Leu Lys
 275 280 285
 Pro Leu Ile Leu Gly Lys Leu Leu Phe Ala Pro Asp Thr Pro Phe Thr
 290 295 300
 Arg Lys Leu Met Ala Gln Val Asn Arg Thr Phe Glu Glu Leu Thr Leu
 305 310 315 320
 Leu Arg Asp Val Arg Glu Val Trp Glu Met Leu Gly Pro Arg Ile Phe
 325 330 335
 Thr Phe Met Asn Asp Ser Ser Asn Val Ala Met Leu Gln Arg Leu Leu
 340 345 350
 Gln Met Gln Asp Glu Gly Arg Arg Gln Pro Arg Pro Gly Gly Arg Asp
 355 360 365
 His Met Glu Ala Leu Arg Ser Phe Leu Asp Pro Gly Ser Gly Gly Tyr
 370 375 380
 Ser Trp Gln Asp Ala His Ala Asp Val Gly His Leu Val Gly Thr Leu
 385 390 395 400
 Gly Arg Val Thr Glu Cys Leu Ser Leu Asp Lys Leu Glu Ala Ala Pro
 405 410 415

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Ser Glu Ala Ala Leu val ser Arg Ala Leu Gln Leu Leu Ala Glu His
 420 425 430
 Arg Phe Trp Ala Gly val val Phe Leu Gly Pro Glu Asp Ser Ser Asp
 435 440 445
 Pro Thr Glu His Pro Thr Pro Asp Leu Gly Pro Gly His Val Arg Ile
 450 455 460
 Lys Ile Arg Met Asp Ile Asp Val Val Thr Arg Thr Asn Lys Ile Arg
 465 470 475 480
 Asp Arg Phe Trp Asp Pro Gly Pro Ala Ala Asp Pro Leu Thr Asp Leu
 485 490 495
 Arg Tyr Val Trp Gly Gly Phe Val Tyr Leu Gln Asp Leu Val Glu Arg
 500 505 510
 Ala Ala Val Arg Val Leu Ser Gly Ala Asn Pro Arg Ala Gly Leu Tyr
 515 520 525
 Leu Gln Gln Met Pro Tyr Pro Cys Tyr Val Asp Asp Val Phe Leu Arg
 530 535 540
 Val Leu Ser Arg Ser Leu Pro Leu Phe Leu Thr Leu Ala Trp Ile Tyr
 545 550 555 560
 Ser Val Thr Leu Thr Val Lys Ala Val Val Arg Glu Lys Glu Thr Arg
 565 570 575
 Leu Arg Asp Thr Met Arg Ala Met Gly Leu Ser Arg Ala Val Leu Trp
 580 585 590
 Leu Gly Trp Phe Leu Ser Cys Leu Gly Pro Phe Leu Leu Ser Ala Ala
 595 600 605
 Leu Leu Val Leu Val Leu Lys Leu Gly Asp Ile Leu Pro Tyr Ser His
 610 615 620
 Pro Gly val Val Phe Leu Phe Leu Ala Ala Phe Ala Val Ala Thr Val
 625 630 635 640
 Thr Gln Ser Phe Leu Leu Ser Ala Phe Phe Ser Arg Ala Asn Leu Ala
 645 650 655
 Ala Ala Cys Gly Gly Leu Ala Tyr Phe Ser Leu Tyr Leu Pro Tyr Val
 660 665 670
 Leu Cys Val Ala Trp Arg Asp Arg Leu Pro Ala Gly Gly Arg Val Ala
 675 680 685
 Ala Ser Leu Leu Ser Pro Val Ala Phe Gly Phe Gly Cys Glu Ser Leu
 690 695 700
 Ala Leu Leu Glu Glu Gln Gly Glu Gly Ala Gln Trp His Asn Val Gly
 705 710 715 720
 Thr Arg Pro Thr Ala Asp Val Phe Ser Leu Ala Gln Val Ser Gly Leu
 725 730 735
 Leu Leu Leu Asp Ala Ala Leu Tyr Gly Leu Ala Thr Trp Tyr Leu Glu
 740 745 750
 Ala Val Cys Pro Gly Gln Tyr Gly Ile Pro Glu Pro Trp Asn Phe Pro
 755 760 765
 Phe Arg Arg Ser Tyr Trp Cys Gly Pro Arg Pro Pro Lys Ser Pro Ala
 770 775 780
 Pro Cys Pro Thr Pro Leu Asp Pro Lys Val Leu Val Glu Glu Ala Pro
 785 790 795 800
 Pro Gly Leu Ser Pro Gly Val Ser Val Arg Ser Leu Glu Lys Arg Phe
 805 810 815
 Pro Gly Ser Pro Gln Pro Ala Leu Arg Gly Leu Ser Leu Asp Phe Tyr
 820 825 830
 Gln Gly His Ile Thr Ala Phe Leu Gly His Asn Gly Ala Gly Lys Thr
 835 840 845
 Thr Thr Leu Ser Ile Leu Ser Gly Leu Phe Pro Pro Ser Gly Gly Ser
 850 855 860
 Ala Phe Ile Leu Gly His Asp Val Arg Ser Ser Met Ala Ala Ile Arg
 865 870 875 880
 Pro His Leu Gly Val Cys Pro Gln Tyr Asn Val Leu Phe Asp Met Leu
 885 890 895
 Thr Val Asp Glu His Val Trp Phe Tyr Gly Arg Leu Lys Gly Leu Ser
 900 905 910
 Ala Ala Val Val Gly Pro Glu Gln Asp Arg Leu Leu Gln Asp Val Gly

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915	920	925
Leu Val Ser Lys Gln Ser Val Gln Thr Arg His	Leu Ser Gly Gly Met	
930	935	940
Gln Arg Lys Leu Ser Val Ala Ile Ala Phe Val	Gly Gly Ser Gln Val	
945	950	955
Val Ile Leu Asp Glu Pro Thr Ala Gly Val Asp	Pro Ala Ser Arg Arg	
965	970	975
Gly Ile Trp Glu Leu Leu Lys Tyr Arg Glu Gly	Arg Thr Leu Ile	
980	985	990
Leu Ser Thr His His Leu Asp Glu Ala Glu Leu	Leu Gly Asp Arg Val	
995	1000	1005
Ala Val Val Ala Gly Gly Arg Leu Cys Cys Cys	Gly Ser Pro Leu Phe	
1010	1015	1020
Leu Arg Arg His Leu Gly Ser Gly Tyr Tyr	Leu Thr Leu Val Lys Ala	
1025	1030	1035
Arg Leu Pro Leu Thr Thr Asn Glu Lys Ala Asp	Thr Asp Met Glu Gly	
1045	1050	1055
Ser Val Asp Thr Arg Gln Glu Lys Lys Asn Gly	Ser Gln Gly Ser Arg	
1060	1065	1070
Val Gly Thr Pro Gln Leu Leu Ala Leu Val Gln	His Trp Val Pro Gly	
1075	1080	1085
Ala Arg Leu Val Glu Glu Leu Pro His Glu Leu	Val Leu Val Leu Pro	
1090	1095	1100
Tyr Thr Gly Ala His Asp Gly Ser Phe Ala	Thr Leu Phe Arg Glu Leu	
1105	1110	1115
Asp Thr Arg Leu Ala Glu Leu Arg Leu Thr	Gly Tyr Gly Ile Ser Asp	
1125	1130	1135
Thr Ser Leu Glu Glu Ile Phe Leu Lys Val Val	Glu Cys Ala Ala	
1140	1145	1150
Asp Thr Asp Met Glu Asp Gly Ser Cys Gly Gln	His Leu Cys Thr Gly	
1155	1160	1165
Ile Ala Gly Leu Asp Val Thr Leu Arg Leu Lys	Met Pro Pro Gln Glu	
1170	1175	1180
Thr Ala Leu Glu Asn Gly Glu Pro Ala Gly	Ser Ala Pro Glu Thr Asp	
1185	1190	1195
Gln Gly Ser Gly Pro Asp Ala Val Gly Arg Val	Gln Gly Trp Ala Leu	
1205	1210	1215
Thr Arg Gln Gln Leu Gln Ala Leu Leu Lys Arg	Phe Leu Leu Ala	
1220	1225	1230
Arg Arg Ser Arg Arg Gly Leu Phe Ala Gln Ile	Val Leu Pro Ala Leu	
1235	1240	1245
Phe Val Gly Leu Ala Leu Val Phe Ser Leu Ile	Val Pro Pro Phe Gly	
1250	1255	1260
His Tyr Pro Ala Leu Arg Leu Ser Pro Thr	Met Tyr Gly Ala Gln Val	
1265	1270	1275
Ser Phe Phe Ser Glu Asp Ala Pro Gly Asp Pro	Gly Arg Ala Arg Leu	
1285	1290	1295
Leu Glu Ala Leu Leu Gln Glu Ala Gly Leu Glu	Glu Pro Pro Val Gln	
1300	1305	1310
His Ser Ser His Arg Phe Ser Ala Pro Glu Val	Pro Ala Glu Val Ala	
1315	1320	1325
Lys Val Leu Ala Ser Gly Asn Trp Thr Pro	Glu Ser Pro Ser Pro Ala	
1330	1335	1340
Cys Gln Cys Ser Arg Pro Gly Ala Arg Arg	Leu Leu Pro Asp Cys Pro	
1345	1350	1355
Ala Ala Ala Gly Gly Pro Pro Pro Gln Ala Val	Thr Gly Ser Gly	
1365	1370	1375
Glu Val Val Gln Asn Leu Thr Gly Arg Asn Leu	Ser Asp Phe Leu Val	
1380	1385	1390
Lys Thr Tyr Pro Arg Leu Val Arg Gln Gly Leu	Lys Thr Lys Lys Trp	
1395	1400	1405
Val Asn Glu Val Arg Tyr Gly Gly Phe Ser Leu	Gly Arg Asp Pro	
1410	1415	1420

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Gly Leu Pro Ser Gly Gln Glu Leu Gly Arg Ser Val Glu Glu Leu Trp
 1425 1430 1435 1440
 Ala Leu Leu Ser Pro Leu Pro Gly Gly Ala Leu Asp Arg Val Leu Lys
 1445 1450 1455
 Asn Leu Thr Ala Trp Ala His Ser Leu Asp Ala Gln Asp Ser Leu Lys
 1460 1465 1470
 Ile Trp Phe Asn Asn Lys Gly Trp His Ser Met Val Ala Phe Val Asn
 1475 1480 1485
 Arg Ala Ser Asn Ala Ile Leu Arg Ala His Leu Pro Pro Gly Pro Ala
 1490 1495 1500
 Arg His Ala His Ser Ile Thr Thr Leu Asn His Pro Leu Asn Leu Thr
 1505 1510 1515 1520
 Lys Glu Gln Leu Ser Glu Gly Ala Leu Met Ala Ser Ser Val Asp Val
 1525 1530 1535
 Leu Val Ser Ile Cys Val Val Phe Ala Met Ser Phe Val Pro Ala Ser
 1540 1545 1550
 Phe Thr Leu Val Leu Ile Glu Glu Arg Val Thr Arg Ala Lys His Leu
 1555 1560 1565
 Gln Leu Met Gly Gly Leu Ser Pro Thr Leu Tyr Trp Leu Gly Asn Phe
 1570 1575 1580
 Leu Trp Asp Met Cys Asn Tyr Leu Val Pro Ala Cys Ile Val Val Leu
 1585 1590 1595 1600
 Ile Phe Leu Ala Phe Gln Gln Arg Ala Tyr Val Ala Pro Ala Asn Leu
 1605 1610 1615
 Pro Ala Leu Leu Leu Leu Leu Leu Tyr Gly Trp Ser Ile Thr Pro
 1620 1625 1630
 Leu Met Tyr Pro Ala Ser Phe Phe Ser Val Pro Ser Thr Ala Tyr
 1635 1640 1645
 Val Val Leu Thr Cys Ile Asn Leu Phe Ile Gly Ile Asn Gly Ser Met
 1650 1655 1660
 Ala Thr Phe Val Leu Glu Leu Phe Ser Asp Gln Gln Lys Leu Gln Glu
 1665 1670 1675 1680
 Val Ser Arg Ile Leu Lys Gln Val Phe Leu Ile Phe Pro His Phe Cys
 1685 1690 1695
 Leu Gly Arg Gly Leu Ile Asp Met Val Arg Asn Gln Ala Met Ala Asp
 1700 1705 1710
 Ala Phe Glu Arg Leu Gly Asp Arg Gln Phe Gln Ser Pro Leu Arg Trp
 1715 1720 1725
 Glu Val Val Gly Lys Asn Leu Leu Ala Met Val Ile Gln Gly Pro Leu
 1730 1735 1740
 Phe Leu Leu Phe Thr Leu Leu Leu Gln His Arg Ser Gln Leu Leu Pro
 1745 1750 1755 1760
 Gln Pro Arg Val Arg Ser Leu Pro Leu Leu Gly Glu Glu Asp Glu Asp
 1765 1770 1775
 Val Ala Arg Glu Arg Glu Arg Val Val Gln Gly Ala Thr Gln Gly Asp
 1780 1785 1790
 Val Leu Val Leu Arg Asn Leu Thr Lys Val Tyr Arg Gly Gln Arg Met
 1795 1800 1805
 Pro Ala Val Asp Arg Leu Cys Leu Gly Ile Pro Pro Gly Glu Cys Phe
 1810 1815 1820
 Gly Leu Leu Gly Val Asn Gly Ala Gly Lys Thr Ser Thr Phe Arg Met
 1825 1830 1835 1840
 Val Thr Gly Asp Thr Leu Ala Ser Arg Gly Glu Ala Val Leu Ala Gly
 1845 1850 1855
 His Ser Val Ala Arg Glu Pro Ser Ala Ala His Leu Ser Met Gly Tyr
 1860 1865 1870
 Cys Pro Gln Ser Asp Ala Ile Phe Glu Leu Leu Thr Gly Arg Glu His
 1875 1880 1885
 Leu Glu Leu Leu Ala Arg Leu Arg Gly Val Pro Glu Ala Gln Val Ala
 1890 1895 1900
 Gln Thr Ala Gly Ser Gly Leu Ala Arg Leu Gly Leu Ser Trp Tyr Ala
 1905 1910 1915 1920
 Asp Arg Pro Ala Gly Thr Tyr Ser Gly Gly Asn Lys Arg Lys Leu Ala

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1925	1930	1935
Thr Ala Leu Ala Leu Val Gly Asp Pro Ala Val Val Phe Leu Asp Glu		
1940	1945	1950
Pro Thr Thr Gly Met Asp Pro Ser Ala Arg Arg Phe Leu Trp Asn Ser		
1955	1960	1965
Leu Leu Ala Val Val Arg Glu Gly Arg Ser Val Met Leu Thr Ser His		
1970	1975	1980
Ser Met Glu Glu Cys Glu Ala Leu Cys Ser Arg Leu Ala Ile Met Val		
1985	1990	1995
Asn Gly Arg Phe Arg Cys Leu Gly Ser Pro Gln His Leu Lys Gly Arg		
2005	2010	2015
Phe Ala Ala Gly His Thr Leu Thr Leu Arg Val Pro Ala Ala Arg Ser		
2020	2025	2030
Gln Pro Ala Ala Ala Phe Val Ala Ala Glu Phe Pro Gly Ala Glu Leu		
2035	2040	2045
Arg Glu Ala His Gly Gly Arg Leu Arg Phe Gln Leu Pro Pro Gly Gly		
2050	2055	2060
Arg Cys Ala Leu Ala Arg Val Phe Gly Glu Leu Ala Val His Gly Ala		
2065	2070	2075
Glu His Gly Val Glu Asp Phe Ser Val Ser Gln Thr Met Leu Glu Glu		
2085	2090	2095
Val Phe Leu Tyr Phe Ser Lys Asp Gln Gly Lys Asp Glu Asp Thr Glu		
2100	2105	2110
Glu Gln Lys Glu Ala Gly Val Gly Val Asp Pro Ala Pro Gly Leu Gln		
2115	2120	2125
His Pro Lys Arg Val Ser Gln Phe Leu Asp Asp Pro Ser Thr Ala Glu		
2130	2135	2140
Thr Val Leu		
2145		

<210> 45

<211> 650

<212> PRT

<213> Homo sapiens

<400> 45

Met Arg Leu Lys Asn Leu Thr Phe Ile Ile Ile Leu Ile Ile Ser Gly			
1	5	10	15
Glu Leu Tyr Ala Glu Glu Lys Pro Cys Gly Phe Pro His Val Glu Asn			
20	25	30	
Gly Arg Ile Ala Gln Tyr Tyr Thr Phe Lys Ser Phe Tyr Phe Pro			
35	40	45	
Met Ser Ile Asp Lys Lys Leu Ser Phe Phe Cys Leu Ala Gly Tyr Thr			
50	55	60	
Thr Glu Ser Gly Arg Gln Glu Glu Gln Thr Thr Cys Thr Thr Glu Gly			
65	70	75	80
Trp Ser Pro Glu Pro Arg Cys Phe Lys Lys Cys Thr Lys Pro Asp Leu			
85	90	95	
Ser Asn Gly Tyr Ile Ser Asp Val Lys Leu Leu Tyr Lys Ile Gln Glu			
100	105	110	
Asn Met His Tyr Gly Cys Ala Ser Gly Tyr Lys Thr Thr Gly Gly Lys			
115	120	125	
Asp Glu Glu Val Val Gln Cys Leu Ser Asp Gly Trp Ser Ser Gln Pro			
130	135	140	
Thr Cys Arg Lys Glu His Glu Thr Cys Leu Ala Pro Glu Leu Tyr Asn			
145	150	155	160
Gly Asn Tyr Ser Thr Thr Gln Lys Thr Phe Lys Val Lys Asp Lys Val			
165	170	175	
Gln Tyr Glu Cys Ala Thr Gly Tyr Tyr Thr Ala Gly Gly Lys Lys Thr			
180	185	190	
Glu Glu Val Glu Cys Leu Thr Tyr Gly Trp Ser Leu Thr Pro Lys Cys			
195	200	205	
Thr Lys Leu Lys Cys Ser Ser Leu Arg Leu Ile Glu Asn Gly Tyr Phe			

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210	215	220	
His Pro Val Lys Gln Thr Tyr Glu Glu Gly Asp Val Val Gln Phe Phe			
225	230	235	
Cys His Glu Asn Tyr Tyr Leu Ser Gly Ser Asp Leu Ile Gln Cys Tyr		240	
245	250	255	
Asn Phe Gly Trp Tyr Pro Glu Ser Pro Val Cys Glu Gly Arg Arg Asn			
260	265	270	
Arg Cys Pro Pro Pro Pro Leu Pro Ile Asn Ser Lys Ile Gln Thr His			
275	280	285	
Ser Thr Thr Tyr Arg His Gly Glu Ile Val His Ile Glu Cys Glu Leu			
290	295	300	
Asn Phe Glu Ile His Gly Ser Ala Glu Ile Arg Cys Glu Asp Gly Lys			
305	310	315	320
Ser Thr Glu Pro Pro Lys Cys Ile Glu Gly Gln Glu Lys Val Ala Cys			
325	330	335	
Glu Glu Pro Pro Phe Ile Glu Asn Gly Ala Ala Asn Leu His Ser Lys			
340	345	350	
Ile Tyr Tyr Asn Gly Asp Lys Val Thr Tyr Ala Cys Lys Ser Gly Tyr			
355	360	365	
Leu Leu His Gly Ser Asn Glu Ile Thr Cys Asn Arg Gly Lys Trp Thr			
370	375	380	
Leu Pro Pro Glu Cys Val Glu Asn Asn Glu Asn Cys Lys His Pro Pro			
385	390	395	400
Val Val Met Asn Gly Ala Val Ala Asp Gly Ile Leu Ala Ser Tyr Ala			
405	410	415	
Thr Gly Ser Ser Val Glu Tyr Arg Cys Asn Glu Tyr Tyr Leu Leu Arg			
420	425	430	
Gly Ser Lys Ile Ser Arg Cys Glu Gln Gly Lys Trp Ser Ser Pro Pro			
435	440	445	
Val Cys Leu Glu Pro Cys Thr Val Asn Val Asp Tyr Met Asn Arg Asn			
450	455	460	
Asn Ile Glu Met Lys Trp Lys Tyr Glu Gly Lys Val Leu His Gly Asp			
465	470	475	480
Leu Ile Asp Phe Val Cys Lys Gln Gly Tyr Asp Leu Ser Pro Leu Thr			
485	490	495	
Pro Leu Ser Glu Leu Ser Val Gln Cys Asn Arg Gly Glu Val Lys Tyr			
500	505	510	
Pro Leu Cys Thr Arg Lys Glu Ser Lys Gly Met Cys Thr Ser Pro Pro			
515	520	525	
Leu Ile Lys His Gly Val Ile Ile Ser Ser Thr Val Asp Thr Tyr Glu			
530	535	540	
Asn Gly Ser Ser Val Glu Tyr Arg Cys Phe Asp His His Phe Leu Glu			
545	550	555	560
Gly Ser Arg Glu Ala Tyr Cys Leu Asp Gly Met Trp Thr Thr Pro Pro			
565	570	575	
Leu Cys Leu Glu Pro Cys Thr Leu Ser Phe Thr Glu Met Glu Lys Asn			
580	585	590	
Asn Leu Leu Leu Lys Trp Asp Phe Asp Asn Arg Pro His Ile Leu His			
595	600	605	
Gly Glu Tyr Ile Glu Phe Ile Cys Arg Gly Asp Thr Tyr Pro Ala Glu			
610	615	620	
Leu Tyr Ile Thr Gly Ser Ile Leu Arg Met Gln Cys Asp Arg Gly Gln			
625	630	635	640
Leu Lys Tyr Pro Arg Cys Ile Pro Arg Gln			
645	650		

<210> 46

<211> 2496

<212> PRT

<213> Homo sapiens

<400> 46

Met Gly Ala Ala Ala Gly Arg Ser Pro His Leu Gly Pro Ala Pro Ala

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1	5	10	15
Arg Arg Pro Gln Arg Ser Leu Leu	Leu Leu Gln Leu Leu	Leu Leu Val	
20 25	30		
Ala Ala Pro Gly Ser Thr Gln Ala	Gln Ala Ala Pro Phe	Pro Glu Leu	
35 40	45		
Cys Ser Tyr Thr Trp Glu Ala Val	Asp Thr Lys Asn Asn Val	Leu Tyr	
50 55	60		
Lys Ile Asn Ile Cys Gly Ser Val	Asp Ile Val Gln Cys Gly	Pro Ser	
65 70	75	80	
Ser Ala Val Cys Met His Asp Leu	Lys Thr Arg Thr Tyr His	Ser Val	
85 90	95		
Gly Asp Ser Val Leu Arg Ser Ala	Thr Arg Ser Leu Leu	Glu Phe Asn	
100	105	110	
Thr Thr Val Ser Cys Asp Gln Gln	Gly Thr Asn His Arg Val	Gln Ser	
115 120	125		
Ser Ile Ala Phe Leu Cys Gly Lys	Thr Leu Gly Thr Pro Glu Phe	Val	
130 135	140		
Thr Ala Thr Glu Cys Val His Tyr	Phe Glu Trp Arg Thr Thr	Ala Ala	
145 150	155	160	
Cys Lys Lys Asp Ile Phe Lys Ala	Asn Lys Glu Val Pro Cys	Tyr Val	
165 170	175		
Phe Asp Glu Glu Leu Arg Lys His	Asp Leu Asn Pro Leu Ile	Lys Leu	
180 185	190		
Ser Gly Ala Tyr Leu Val Asp Asp	Ser Asp Pro Asp Thr Ser	Leu Phe	
195 200	205		
Ile Asn Val Cys Arg Asp Ile Asp	Thr Leu Arg Asp Pro Gly	Ser Gln	
210 215	220		
Leu Arg Ala Cys Pro Pro Gly Thr	Ala Ala Cys Leu Val Arg	Gly His	
225 230	235	240	
Gln Ala Phe Asp Val Gly Gln Pro	Arg Asp Gly Leu Lys Leu	Val Arg	
245 250	255		
Lys Asp Arg Leu Val Leu Ser Tyr	Val Arg Glu Glu Ala Gly	Lys Leu	
260 265	270		
Asp Phe Cys Asp Gly His Ser Pro	Ala Val Thr Ile Thr Phe	Val Cys	
275 280	285		
Pro Ser Glu Arg Arg Glu Gly Thr	Ile Pro Lys Leu Thr Ala	Lys Ser	
290 295	300		
Asn Cys Arg Tyr Glu Ile Glu Trp	Ile Thr Glu Tyr Ala Cys	His Arg	
305 310	315	320	
Asp Tyr Leu Glu Ser Lys Thr Cys	Ser Leu Ser Gly Glu Gln	Gln Asp	
325 330	335		
Val Ser Ile Asp Leu Thr Pro Leu	Ala Gln Ser Gly Gly Ser	Ser Tyr	
340 345	350		
Ile Ser Asp Gly Lys Glu Tyr Leu	Phe Tyr Leu Asn Val Cys	Gly Glu	
355 360	365		
Thr Glu Ile Gln Phe Cys Asn Lys	Gln Ala Ala Val Cys Gln	Val	
370 375	380		
Lys Lys Ser Asp Thr Ser Gln Val	Lys Ala Ala Gly Arg Tyr	His Asn	
385 390	395	400	
Gln Thr Leu Arg Tyr Ser Asp Gly	Asp Leu Thr Leu Ile Tyr	Phe Gly	
405 410	415		
Gly Asp Glu Cys Ser Ser Gly Phe	Gln Arg Met Ser Val Ile	Asn Phe	
420 425	430		
Glu Cys Asn Lys Thr Ala Gly Asn	Asp Gly Lys Gly Thr Pro	Val Phe	
435 440	445		
Thr Gly Glu Val Asp Cys Thr Tyr	Phe Phe Thr Trp Asp Thr	Glu Tyr	
450 455	460		
Ala Cys Val Lys Glu Lys Glu Asp	Leu Leu Cys Gly Ala Thr	Asp Gly	
465 470	475	480	
Lys Lys Arg Tyr Asp Leu Ser Ala	Leu Val Arg His Ala Glu	Pro Glu	
485 490	495		
Gln Asn Trp Glu Ala Val Asp Gly	Ser Gln Thr Glu Thr Glu	Lys Lys	
500 505	510		

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His Phe Phe Ile Asn Ile Cys His Arg Val Leu Gln Glu Gly Lys Ala
 515 520 525
 Arg Gly Cys Pro Glu Asp Ala Ala Val Cys Ala Val Asp Lys Asn Gly
 530 535 540
 Ser Lys Asn Leu Gly Lys Phe Ile Ser Ser Pro Met Lys Glu Lys Gly
 545 550 555 560
 Asn Ile Gln Leu Ser Tyr Ser Asp Gly Asp Asp Cys Gly His Gly Lys
 565 570 575
 Lys Ile Lys Thr Asn Ile Thr Leu Val Cys Lys Pro Gly Asp Leu Glu
 580 585 590
 Ser Ala Pro Val Leu Arg Thr Ser Gly Glu Gly Gly Cys Phe Tyr Glu
 595 600 605
 Phe Glu Trp His Thr Ala Ala Ala Cys Val Leu Ser Lys Thr Glu Gly
 610 615 620
 Glu Asn Cys Thr Val Phe Asp Ser Gln Ala Gly Phe Ser Phe Asp Leu
 625 630 635 640
 Ser Pro Leu Thr Lys Lys Asn Gly Ala Tyr Lys Val Glu Thr Lys Lys
 645 650 655
 Tyr Asp Phe Tyr Ile Asn Val Cys Gly Pro Val Ser Val Ser Pro Cys
 660 665 670
 Gln Pro Asp Ser Gly Ala Cys Gln Val Ala Lys Arg Gln Val Ala Ser
 675 680 685
 His Asp Glu Lys Thr Trp Asn Leu Gly Leu Ser Asn Ala Lys Leu Ser
 690 695 700
 Tyr Tyr Asp Gly Met Ile Gln Leu Asn Tyr Arg Gly Gly Thr Pro Tyr
 705 710 715 720
 Asn Asn Glu Arg His Thr Pro Arg Ala Thr Leu Ile Thr Phe Leu Cys
 725 730 735
 Asp Arg Asp Ala Gly Val Gly Phe Pro Glu Tyr Gln Glu Glu Asp Asn
 740 745 750
 Ser Thr Tyr Asn Phe Arg Trp Tyr Thr Ser Tyr Ala Cys Pro Glu Glu
 755 760 765
 Pro Leu Glu Cys Val Val Thr Asp Pro Ser Thr Leu Glu Gln Tyr Asp
 770 775 780
 Leu Ser Ser Leu Ala Lys Ser Glu Gly Gly Leu Gly Gly Asn Trp Tyr
 785 790 795 800
 Ala Met Asp Asn Ser Gly Glu His Val Thr Trp Arg Lys Tyr Tyr Ile
 805 810 815
 Asn Val Cys Arg Pro Leu Asn Pro Val Pro Gly Cys Asn Arg Tyr Ala
 820 825 830
 Ser Ala Cys Gln Met Lys Tyr Glu Lys Asp Gln Gly Ser Phe Thr Glu
 835 840 845
 Val Val Ser Ile Ser Asn Leu Gly Met Ala Lys Thr Gly Pro Val Val
 850 855 860
 Glu Asp Ser Gly Ser Leu Leu Leu Glu Tyr Val Asn Gly Ser Ala Cys
 865 870 875 880
 Thr Thr Ser Asp Gly Arg Gln Thr Thr Tyr Thr Thr Arg Ile His Leu
 885 890 895
 Val Cys Ser Arg Gly Arg Leu Asn Ser His Pro Ile Phe Ser Leu Asn
 900 905 910
 Trp Glu Cys Val Val Ser Phe Leu Trp Asn Thr Glu Ala Ala Cys Pro
 915 920 925
 Ile Gln Thr Thr Thr Asp Thr Asp Gln Ala Cys Ser Ile Arg Asp Pro
 930 935 940
 Asn Ser Gly Phe Val Phe Asn Leu Asn Pro Leu Asn Ser Ser Gln Gly
 945 950 955 960
 Tyr Asn Val Ser Gly Ile Gly Lys Ile Phe Met Phe Asn Val Cys Gly
 965 970 975
 Thr Met Pro Val Cys Gly Thr Ile Leu Gly Lys Pro Ala Ser Gly Cys
 980 985 990
 Glu Ala Glu Thr Gln Thr Glu Glu Leu Lys Asn Trp Lys Pro Ala Arg
 995 1000 1005
 Pro Val Gly Ile Glu Lys Ser Leu Gln Leu Ser Thr Glu Gly Phe Ile

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1010	1015	1020
Thr Leu Thr Tyr Lys Gly Pro Leu Ser Ala Lys	Gly Thr Ala Asp Ala	1025
1030	1035	1040
Phe Ile Val Arg Phe Val Cys Asn Asp Asp Val	Tyr Ser Gly Pro Leu	1045
1050	1055	1060
Lys Phe Leu His Gln Asp Ile Asp Ser Gly Gln	Gly Ile Arg Asn Thr	1065
1070	1075	1080
Tyr Phe Glu Phe Glu Thr Ala Leu Ala Cys Val	Pro Ser Pro Val Asp	1085
1090	1100	1095
Cys Gln Val Thr Asp Leu Ala Gly Asn Glu Tyr	Asp Leu Thr Gly Leu	1105
1110	1115	1120
Ser Thr Val Arg Lys Pro Trp Thr Ala Val Asp	Thr Ser Val Asp Gly	1125
1130	1135	1130
Arg Lys Arg Thr Phe Tyr Leu Ser Val Cys Asn	Pro Leu Pro Tyr Ile	1140
1145	1150	1145
Pro Gly Cys Gln Gly Asp Ala Val Gly Ser Cys	Leu Val Ser Glu Gly	1155
1160	1165	1160
Asn Ser Trp Asn Leu Gly Val Val Gln Met Ser	Pro Gln Ala Ala Ala	1170
1175	1180	1175
Asn Gly Ser Leu Ser Ile Met Tyr Val Asn Gly	Asp Lys Cys Gly Asn	1185
1190	1195	1190
Gln Arg Phe Ser Thr Arg Ile Thr Phe Glu Cys	Ala Gln Ile Ser Gly	1200
1205	1210	1205
Ser Pro Ala Phe Gln Leu Gln Asp Gly Cys	Glu Tyr Val Phe Ile Trp	1215
1220	1225	1220
Arg Thr Val Glu Ala Cys Pro Val Val Arg Val	Glu Gly Asp Asn Cys	1230
1235	1240	1235
Glu Val Lys Asp Pro Arg His Gly Asn Leu Tyr	Asp Leu Lys Pro Leu	1250
1255	1260	1255
Gly Leu Asn Asp Thr Ile Val Ser Ala Gly Glu	Tyr Thr Tyr Tyr Phe	1265
1270	1275	1270
Arg Val Cys Gly Lys Leu Ser Ser Asp Val Cys	Pro Thr Ser Asp Lys	1280
1285	1290	1285
Ser Lys Val Val Ser Ser Cys Gln Glu Lys Arg	Glu Pro Gln Gly Phe	1295
1300	1305	1300
His Lys Val Ala Gly Leu Leu Thr Gln Lys Leu	Thr Tyr Glu Asn Gly	1310
1315	1320	1315
Leu Leu Lys Met Asn Phe Thr Gly Gly Asp Thr	Cys His Lys Val Tyr	1325
1330	1335	1330
Gln Arg Ser Thr Ala Ile Phe Phe Tyr Cys Asp	Arg Gly Thr Gln Arg	1340
1345	1350	1345
Pro Val Phe Leu Lys Glu Thr Ser Asp Cys Ser	Tyr Leu Phe Glu Trp	1360
1365	1370	1365
Arg Thr Gln Tyr Ala Cys Pro Pro Phe Asp Leu	Thr Glu Cys Ser Phe	1375
1380	1385	1380
Lys Asp Gly Ala Gly Asn Ser Phe Asp Leu Ser	Ser Leu Ser Arg Tyr	1390
1395	1400	1395
Ser Asp Asn Trp Glu Ala Ile Thr Gly Thr Gly	Asp Pro Glu His Tyr	1405
1410	1415	1410
Leu Ile Asn Val Cys Lys Ser Leu Ala Pro Gln	Ala Gly Thr Glu Pro	1420
1425	1430	1425
Cys Pro Pro Glu Ala Ala Ala Cys Leu Leu	Gly Gly Ser Lys Pro Val	1440
1445	1450	1445
Asn Leu Gly Arg Val Arg Asp Gly Pro Gln Trp	Arg Asp Gly Ile Ile	1455
1460	1465	1460
Val Leu Lys Tyr Val Asp Gly Asp Leu Cys Pro	Asp Gly Ile Arg Lys	1470
1475	1480	1475
Lys Ser Thr Thr Ile Arg Phe Thr Cys Ser Glu	Ser Gln Val Asn Ser	1485
1490	1495	1490
Arg Pro Met Phe Ile Ser Ala Val Glu Asp Cys	Glu Tyr Thr Phe Ala	1500
1505	1510	1505
Trp Pro Thr Ala Thr Ala Cys Pro Met Lys	Ser Asn Glu His Asp Asp	1520

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Cys Gln Val Thr Asn Pro Ser Thr Gly His Leu Phe Asp Leu Ser Ser
 1525 1530 1535
 Leu Ser Gly Arg Ala Gly Phe Thr Ala Ala Tyr Ser Glu Lys Gly Leu
 1540 1545 1550
 Val Tyr Met Ser Ile Cys Gly Glu Asn Glu Asn Cys Pro Pro Gly Val
 1555 1560 1565
 Gly Ala Cys Phe Gly Gln Thr Arg Ile Ser Val Gly Lys Ala Asn Lys
 1570 1575 1580
 Arg Leu Arg Tyr Val Asp Gln Val Leu Gln Leu Val Tyr Lys Asp Gly
 1585 1590 1595 1600
 Ser Pro Cys Pro Ser Lys Ser Gly Leu Ser Tyr Lys Ser Val Ile Ser
 1605 1610 1615
 Phe Val Cys Arg Pro Glu Ala Arg Pro Thr Asn Arg Pro Met Leu Ile
 1620 1625 1630
 Ser Leu Asp Lys Gln Thr Cys Thr Leu Phe Phe Ser Trp His Thr Pro
 1635 1640 1645
 Leu Ala Cys Glu Gln Ala Thr Glu Cys Ser Val Arg Asn Gly Ser Ser
 1650 1655 1660
 Ile Val Asp Leu Ser Pro Leu Ile His Arg Thr Gly Gly Tyr Glu Ala
 1665 1670 1675 1680
 Tyr Asp Glu Ser Glu Asp Asp Ala Ser Asp Thr Asn Pro Asp Phe Tyr
 1685 1690 1695
 Ile Asn Ile Cys Gln Pro Leu Asn Pro Met His Gly Val Pro Cys Pro
 1700 1705 1710
 Ala Gly Ala Ala Val Cys Lys Val Pro Ile Asp Gly Pro Pro Ile Asp
 1715 1720 1725
 Ile Gly Arg Val Ala Gly Pro Pro Ile Leu Asn Pro Ile Ala Asn Glu
 1730 1735 1740
 Ile Tyr Leu Asn Phe Glu Ser Ser Thr Pro Cys Leu Ala Asp Lys His
 1745 1750 1755 1760
 Phe Asn Tyr Thr Ser Leu Ile Ala Phe His Cys Lys Arg Gly Val Ser
 1765 1770 1775
 Met Gly Thr Pro Lys Leu Leu Arg Thr Ser Glu Cys Asp Phe Val Phe
 1780 1785 1790
 Glu Trp Glu Thr Pro Val Val Cys Pro Asp Glu Val Arg Met Asp Gly
 1795 1800 1805
 Cys Thr Leu Thr Asp Glu Gln Leu Leu Tyr Ser Phe Asn Leu Ser Ser
 1810 1815 1820
 Leu Ser Thr Ser Thr Phe Lys Val Thr Arg Asp Ser Arg Thr Tyr Ser
 1825 1830 1835 1840
 Val Gly Val Cys Thr Phe Ala Val Gly Pro Glu Gln Gly Gly Cys Lys
 1845 1850 1855
 Asp Gly Gly Val Cys Leu Leu Ser Gly Thr Lys Gly Ala Ser Phe Gly
 1860 1865 1870
 Arg Leu Gln Ser Met Lys Leu Asp Tyr Arg His Gln Asp Glu Ala Val
 1875 1880 1885
 Val Leu Ser Tyr Val Asn Gly Asp Arg Cys Pro Pro Glu Thr Asp Asp
 1890 1895 1900
 Gly Val Pro Cys Val Phe Pro Phe Ile Phe Asn Gly Lys Ser Tyr Glu
 1905 1910 1915 1920
 Glu Cys Ile Ile Glu Ser Arg Ala Lys Leu Trp Cys Ser Thr Thr Ala
 1925 1930 1935
 Asp Tyr Asp Arg Asp His Glu Trp Gly Phe Cys Arg His Ser Asn Ser
 1940 1945 1950
 Tyr Arg Thr Ser Ser Ile Ile Phe Lys Cys Asp Glu Asp Glu Asp Ile
 1955 1960 1965
 Gly Arg Pro Gln Val Phe Ser Glu Val Arg Gly Cys Asp Val Thr Phe
 1970 1975 1980
 Glu Trp Lys Thr Lys Val Val Cys Pro Pro Lys Lys Leu Glu Cys Lys
 1985 1990 1995 2000
 Phe Val Gln Lys His Lys Thr Tyr Asp Leu Arg Leu Leu Ser Ser Leu
 2005 2010 2015
 Thr Gly Ser Trp Ser Leu Val His Asn Gly Val Ser Tyr Tyr Ile Asn

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2020	2025	2030	
Leu Cys Gln Lys Ile Tyr Lys Gly Pro Leu Gly Cys Ser Glu Arg Ala		.	
2035	2040	2045	
Ser Ile Cys Arg Arg Thr Thr Gly Asp Val Gln Val Leu Gly Leu			
2050	2055	2060	
Val His Thr Gln Lys Leu Gly Val Ile Gly Asp Lys Val Val Val Thr			
2065	2070	2075	2080
Tyr Ser Lys Gly Tyr Pro Cys Gly Gly Asn Lys Thr Ala Ser Ser Val			
2085	2090	2095	
Ile Glu Leu Thr Cys Thr Lys Thr Val Gly Arg Pro Ala Phe Lys Arg			
2100	2105	2110	
Phe Asp Ile Asp Ser Cys Thr Tyr Tyr Phe Ser Trp Asp Ser Arg Ala			
2115	2120	2125	
Ala Cys Ala Val Lys Pro Gln Glu Val Gln Met Val Asn Gly Thr Ile			
2130	2135	2140	
Thr Asn Pro Ile Asn Gly Lys Ser Phe Ser Leu Gly Asp Ile Tyr Phe			
2145	2150	2155	2160
Lys Leu Phe Arg Ala Ser Gly Asp Met Arg Thr Asn Gly Asp Asn Tyr			
2165	2170	2175	
Leu Tyr Glu Ile Gln Leu Ser Ser Ile Thr Ser Ser Arg Asn Pro Ala			
2180	2185	2190	
Cys Ser Gly Ala Asn Ile Cys Gln Val Lys Pro Asn Asp Gln His Phe			
2195	2200	2205	
Ser Arg Lys Val Gly Thr Ser Asp Lys Thr Lys Tyr Tyr Leu Gln Asp			
2210	2215	2220	
Gly Asp Leu Asp Val Val Phe Ala Ser Ser Lys Cys Gly Lys Asp			
2225	2230	2235	2240
Lys Thr Lys Ser Val Ser Ser Thr Ile Phe Phe His Cys Asp Pro Leu			
2245	2250	2255	
Val Glu Asp Gly Ile Pro Glu Phe Ser His Glu Thr Ala Asp Cys Gln			
2260	2265	2270	
Tyr Leu Phe Ser Trp Tyr Thr Ser Ala Val Cys Pro Leu Gly Val Gly			
2275	2280	2285	
Phe Asp Ser Glu Asn Pro Gly Asp Asp Gly Gln Met His Lys Gly Leu			
2290	2295	2300	
Ser Glu Arg Ser Gln Ala Val Gly Ala Val Leu Ser Leu Leu Leu Val			
2305	2310	2315	2320
Ala Leu Thr Cys Cys Leu Leu Ala Leu Leu Leu Tyr Lys Lys Glu Arg			
2325	2330	2335	
Arg Glu Thr Val Ile Ser Lys Leu Thr Thr Cys Cys Arg Arg Ser Ser			
2340	2345	2350	
Asn Val Ser Tyr Lys Tyr Ser Lys Val Asn Lys Glu Glu Glu Thr Asp			
2355	2360	2365	
Glu Asn Glu Thr Glu Trp Leu Met Glu Glu Ile Gln Leu Pro Pro Pro			
2370	2375	2380	
Arg Gln Gly Lys Glu Gly Gln Glu Asn Gly His Ile Thr Thr Lys Ser			
2385	2390	2395	2400
Val Lys Ala Leu Ser Ser Leu His Gly Asp Asp Gln Asp Ser Glu Asp			
2405	2410	2415	
Glu Val Leu Thr Ile Pro Glu Val Lys Val His Ser Gly Arg Gly Ala			
2420	2425	2430	
Gly Ala Glu Ser Ser His Pro Val Arg Asn Ala Gln Ser Asn Ala Leu			
2435	2440	2445	
Gln Glu Arg Glu Asp Asp Arg Val Gly Leu Val Arg Gly Glu Lys Ala			
2450	2455	2460	
Arg Lys Gly Lys Ser Ser Ser Ala Gln Gln Lys Thr Val Ser Ser Thr			
2465	2470	2475	2480
Lys Leu Val Ser Phe His Asp Asp Ser Asp Glu Asp Leu Leu His Ile			
2485	2490	2495	

<210> 47
 <211> 561
 <212> PRT

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<213> Homo sapiens

<400> 47

Leu Gly Phe Ser Leu Pro Pro His Leu Leu Phe Arg Pro Arg Leu Asp
 1 5 10 15
 Leu Gln Phe Leu Gln Arg Phe Leu Gln Ile Leu Lys Val Leu Phe Pro
 20 25 30
 Ser Trp Ser Ser Gln Asn Ala Leu Met Phe Leu Thr Leu Leu Cys Leu
 35 40 45
 Thr Leu Leu Gly Asp Phe Asp Gln Phe Thr Cys Asn Leu Leu Tyr Val
 50 55 60
 Ser Trp Arg Lys Asp Leu Thr Glu His Leu His Arg Leu Tyr Phe Arg
 65 70 75 80
 Gly Arg Ala Tyr Tyr Thr Leu Asn Val Leu Arg Asp Asp Ile Asp Asn
 85 90 95
 Pro Asp Gln Arg Ile Ser Gln Asp Val Glu Arg Phe Cys Arg Gln Leu
 100 105 110
 Ser Ser Met Ala Ser Lys Leu Ile Ile Ser Pro Phe Thr Leu Val Tyr
 115 120 125
 Tyr Thr Tyr Gln Cys Phe Gln Ser Thr Gly Trp Leu Gly Pro Val Ser
 130 135 140
 Ile Phe Gly Tyr Phe Ile Leu Gly Thr Val Val Asn Lys Thr Leu Met
 145 150 155 160
 Gly Pro Ile Val Met Lys Leu Val His Gln Glu Lys Leu Glu Gly Asp
 165 170 175
 Phe Arg Phe Lys His Met Gln Ile Arg Val Asn Ala Glu Pro Ala Ala
 180 185 190
 Phe Tyr Arg Ala Gly His Val Glu His Met Arg Thr Asp Arg Arg Leu
 195 200 205
 Gln Arg Leu Leu Gln Thr Gln Arg Glu Leu Met Ser Lys Glu Leu Trp
 210 215 220
 Leu Tyr Ile Gly Ile Asn Thr Phe Asp Tyr Leu Gly Ser Ile Leu Ser
 225 230 235 240
 Tyr Val Val Ile Ala Ile Pro Ile Phe Ser Gly Val Tyr Gly Asp Leu
 245 250 255
 Ser Pro Ala Glu Leu Ser Thr Leu Val Ser Lys Asn Ala Phe Val Cys
 260 265 270
 Ile Tyr Leu Ile Ser Cys Phe Thr Gln Leu Ile Asp Leu Ser Thr Thr
 275 280 285
 Leu Ser Asp Val Ala Gly Tyr Thr His Arg Ile Gly Gln Leu Arg Glu
 290 295 300
 Thr Leu Leu Asp Met Ser Leu Lys Ser Gln Asp Cys Glu Ile Leu Gly
 305 310 315 320
 Glu Ser Glu Trp Gly Leu Asp Thr Pro Pro Gly Trp Pro Ala Ala Glu
 325 330 335
 Pro Ala Asp Thr Ala Phe Leu Leu Glu Arg Val Ser Ile Ser Ala Pro
 340 345 350
 Ser Ser Asp Lys Pro Leu Ile Lys Asp Leu Ser Leu Lys Ile Ser Glu
 355 360 365
 Gly Gln Ser Leu Leu Ile Thr Gly Asn Thr Gly Thr Gly Lys Thr Ser
 370 375 380
 Leu Leu Arg Val Leu Gly Gly Leu Trp Thr Ser Thr Arg Gly Ser Val
 385 390 395 400
 Gln Met Leu Thr Asp Phe Gly Pro His Gly Val Leu Phe Leu Pro Gln
 405 410 415
 Lys Pro Phe Phe Thr Asp Gly Thr Leu Arg Glu Gln Val Ile Tyr Pro
 420 425 430
 Leu Lys Glu Val Tyr Pro Asp Ser Gly Ser Ala Asp Asp Glu Arg Ile
 435 440 445
 Leu Arg Phe Leu Glu Leu Ala Gly Leu Ser Asn Leu Val Ala Arg Thr
 450 455 460
 Glu Gly Leu Asp Gln Gln Val Asp Trp Asn Trp Tyr Asp Val Leu Ser
 465 470 475 480

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Pro Gly Glu Met Gln Arg Leu Ser Phe Ala Arg Leu Phe Tyr Leu Gln
 485 490 495
 Pro Lys Tyr Ala Val Leu Asp Glu Ala Thr Ser Ala Leu Thr Glu Glu
 500 505 510
 val Glu Ser Glu Leu Tyr Arg Ile Gly Gln Gln Leu Gly Met Thr Phe
 515 520 525
 Ile Ser Val Gly His Arg Gln Ser Leu Glu Lys Phe His Ser Leu Val
 530 535 540
 Leu Lys Leu Cys Gly Gly Arg Trp Glu Leu Met Arg Ile Lys Val
 545 550 555 560
 Glu

<210> 48
 <211> 421
 <212> PRT
 <213> Homo sapiens

<400> 48
 Met Ala Ala Thr Leu Ile Leu Glu Pro Ala Gly Arg Cys Cys Trp Asp
 1 5 10 15
 Glu Pro Val Arg Ile Ala Val Arg Gly Leu Ala Pro Glu Gln Pro Val
 20 25 30
 Thr Leu Arg Ala Ser Leu Arg Asp Glu Lys Gly Ala Leu Phe Gln Ala
 35 40 45
 His Ala Arg Tyr Arg Ala Asp Thr Leu Gly Glu Leu Asp Leu Glu Arg
 50 55 60
 Ala Pro Ala Leu Gly Gly Ser Phe Ala Gly Leu Glu Pro Met Gly Leu
 65 70 75 80
 Leu Trp Ala Leu Glu Pro Glu Lys Pro Leu Val Arg Leu Val Lys Arg
 85 90 95
 Asp Val Arg Thr Pro Leu Ala val Glu Leu Glu Val Leu Asp Gly His
 100 105 110
 Asp Pro Asp Pro Gly Arg Leu Leu Cys Arg Val Arg His Glu Arg Tyr
 115 120 125
 Phe Leu Pro Pro Gly Val Arg Arg Glu Pro Val Arg Ala Gly Arg Val
 130 135 140
 Arg Gly Thr Leu Phe Leu Pro Pro Glu Pro Gly Pro Phe Pro Gly Ile
 145 150 155 160
 Val Asp Met Phe Gly Thr Gly Gly Leu Leu Glu Tyr Arg Ala Ser
 165 170 175
 Leu Leu Ala Gly Lys Gly Phe Ala Val Met Ala Leu Ala Tyr Tyr Asn
 180 185 190
 Tyr Glu Asp Leu Pro Lys Thr Met Glu Thr Leu His Leu Glu Tyr Phe
 195 200 205
 Glu Glu Ala Val Asn Tyr Leu Leu Ser His Pro Glu Val Lys Gly Pro
 210 215 220
 Gly Val Gly Leu Leu Gly Ile Ser Lys Gly Gly Glu Leu Cys Leu Ser
 225 230 235 240
 Met Ala Ser Phe Leu Lys Gly Ile Thr Ala Ala Val Val Ile Asn Gly
 245 250 255
 Ser Val Ala Asn Val Gly Gly Thr Leu Arg Tyr Lys Gly Glu Thr Leu
 260 265 270
 Pro Pro Val Gly Val Asn Arg Asn Arg Ile Lys Val Thr Lys Asp Gly
 275 280 285
 Tyr Ala Asp Ile Val Asp Val Leu Asn Ser Pro Leu Glu Gly Pro Asp
 290 295 300
 Gln Lys Ser Phe Ile Pro Val Glu Arg Ala Glu Ser Thr Phe Leu Phe
 305 310 315 320
 Leu Val Gly Gln Asp Asp His Asn Trp Lys Ser Glu Phe Tyr Ala Asn
 325 330 335
 Glu Ala Cys Lys Arg Leu Gln Ala His Gly Arg Arg Lys Pro Gln Ile
 340 345 350

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Ile Cys Tyr Pro Glu Thr Gly His Tyr Ile Glu Pro Pro Tyr Phe Pro
355 360 365
Leu Cys Arg Ala Ser Leu His Ala Leu Val Gly Ser Pro Ile Ile Trp
370 375 380
Gly Gly Glu Pro Arg Ala His Ala Met Ala Gln Val Asp Ala Trp Lys
385 390 395 400
Gln Leu Gln Thr Phe Phe His Lys His Leu Gly Gly His Glu Gly Thr
405 410 415
Ile Pro Ser Lys Val
420

<210> 49
<211> 785
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (196)...(198)
<223> Xaa = Any Amino Acid

<400> 49
Met Pro Lys Ala Pro Lys Gln Gln Pro Pro Glu Pro Glu Trp Ile Gly
1 5 10 15
Asp Gly Glu Ser Thr Ser Pro Ser Gly Glu Ala Gly Arg Gln Gly Arg
20 25 30
Asn Glu Gln Arg Gly Lys Arg Glu Glu Thr Ala Arg Phe Phe Glu Glu
35 40 45
Leu Ala Val Glu Asp Lys Gln Ala Gly Glu Glu Lys Val Leu Lys
50 55 60
Glu Lys Glu Gln Gln Gln Gln Gln Gln Gln Gln Lys Lys
65 70 75 80
Lys Arg Asp Thr Arg Lys Gly Arg Arg Lys Lys Asp Val Asp Asp Asp
85 90 95
Gly Glu Glu Lys Glu Leu Met Glu Arg Leu Lys Lys Leu Ser Val Pro
100 105 110
Thr Ser Asp Glu Glu Asp Glu Val Pro Ala Pro Lys Pro Arg Gly Gly
115 120 125
Lys Lys Thr Lys Gly Asn Val Phe Ala Ala Leu Ile Gln Asp Gln
130 135 140
Ser Glu Glu Glu Glu Glu Glu Lys His Pro Pro Lys Pro Ala Lys
145 150 155 160
Pro Glu Lys Asn Arg Ile Asn Lys Ala Val Ser Glu Glu Gln Gln Pro
165 170 175
Ala Leu Lys Gly Lys Gly Lys Glu Glu Lys Ser Lys Gly Lys Ala
180 185 190
Lys Val Arg Xaa Xaa Xaa Phe Phe Leu Pro Ser Gln Met Glu Tyr Glu
195 200 205
Arg Gln Val Ala Ser Leu Lys Ala Ala Asn Ala Ala Glu Asn Asp Phe
210 215 220
Ser Val Ser Gln Ala Glu Met Ser Ser Arg Gln Ala Met Leu Glu Asn
225 230 235 240
Ala Ser Asp Ile Lys Leu Glu Lys Phe Ser Ile Ser Ala His Gly Lys
245 250 255
Glu Leu Phe Val Asn Ala Asp Leu Tyr Ile Val Ala Gly Arg Arg Tyr
260 265 270
Gly Leu Val Gly Pro Asn Gly Lys Gly Lys Thr Thr Leu Leu Lys His
275 280 285
Ile Ala Asn Arg Ala Leu Ser Ile Pro Pro Asn Ile Asp Val Leu Leu
290 295 300
Cys Glu Gln Glu Val Val Ala Asp Glu Thr Pro Ala Val Gln Ala Val
305 310 315 320
Leu Arg Ala Asp Thr Lys Arg Leu Lys Leu Leu Glu Glu Glu Arg Arg

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325	330	335
Leu Gln Gly Gln	Leu Glu Gln Gly	Asp Asp Thr Ala Ala
340	345	350
Glu Lys Val Tyr	Glu Glu Leu Arg	Ala Thr Gly Ala Ala
355	360	365
Ala Lys Ala Arg Arg	Ile Leu Ala Gly Leu Gly	Phe Asp Pro Glu Met
370	375	380
Gln Asn Arg Pro Thr	Gln Lys Phe Ser Gly Gly	Trp Arg Met Arg Val
385	390	395
Ser Leu Ala Arg Ala	Leu Phe Met Glu	Pro Thr Leu Leu Met Leu Asp
405	410	415
Glu Pro Thr Asn His	Leu Asn Ala Val Ile Trp	Leu Asn Asn
420	425	430
Tyr Leu Gln Gly Trp Arg Lys	Thr Leu Leu Ile Val	Ser His Asp Gln
435	440	445
Gly Phe Leu Asp Asp Val	Cys Thr Asp Ile Ile His	Leu Asp Ala Gln
450	455	460
Arg Leu His Tyr Tyr	Arg Gly Asn Tyr Met	Thr Phe Lys Lys Met Tyr
465	470	475
Gln Gln Lys Gln Lys	Glu Leu Leu Lys	Gln Tyr Glu Lys Gln Glu Lys
485	490	495
Lys Leu Lys Glu Leu Lys Ala	Gly Lys Ser Thr Lys	Gln Ala Glu
500	505	510
Lys Gln Thr Lys Glu Ala Leu	Thr Arg Lys Gln Gln	Lys Cys Arg Arg
515	520	525
Lys Asn Gln Asp Glu Glu	Ser Gln Glu Ala Pro Glu	Leu Leu Lys Arg
530	535	540
Pro Lys Glu Tyr Thr Val	Arg Phe Thr Phe Pro	Asp Pro Pro Pro Leu
545	550	555
Ser Pro Pro Val Leu	Gly Leu His Gly Val	Thr Phe Gly Tyr Gln Gly
565	570	575
Gln Lys Pro Leu Phe Lys Asn Leu	Asp Phe Gly Ile Asp	Met Asp Ser
580	585	590
Arg Ile Cys Ile Val	Gly Pro Asn Gly Val	Lys Ser Thr Leu Leu
595	600	605
Leu Leu Leu Thr Gly Lys	Leu Thr Pro Thr His	Gly Glu Met Arg Lys
610	615	620
Asn His Arg Leu Lys Ile	Gly Phe Phe Asn Gln	Gln Tyr Ala Glu Gln
625	630	635
Leu Arg Met Glu Glu	Thr Pro Thr Glu Tyr	Leu Gln Arg Gly Phe Asn
645	650	655
Leu Pro Tyr Gln Asp Ala Arg	Lys Cys Leu Gly Arg	Phe Gly Leu Glu
660	665	670
Ser His Ala His Thr Ile	Gln Ile Cys Lys Leu Ser	Gly Gly Gln Lys
675	680	685
Ala Arg Val Val Phe Ala	Glu Leu Ala Cys Arg	Glu Pro Asp Val Leu
690	695	700
Ile Leu Asp Glu Pro Thr	Asn Asn Leu Asp Ile	Glu Ser Ile Asp Ala
705	710	715
Leu Gly Glu Ala Ile	Asn Glu Tyr Lys	Gly Ala Val Ile Val Val
725	730	735
His Asp Ala Arg Leu Ile	Thr Glu Thr Asn Cys	Gln Leu Trp Val Val
740	745	750
Glu Glu Gln Ser Val Ser	Gln Ile Asp Gly Asp	Phe Glu Asp Tyr Lys
755	760	765
Arg Glu Val Leu Glu Ala	Leu Gly Glu Val	Met Val Ser Arg Pro Arg
770	775	780
Glu		
785		

<210> 50
<211> 405
<212> PRT

GC773-2-seqlist

<213> Homo sapiens

<400> 50
 Lys Met Leu Ser Ser Phe Leu Ser Pro Gln Asn Gly Thr Trp Ala Asp
 1 5 10 15
 Thr Phe Ser Leu Leu Leu Ala Leu Ala Val Ala Leu Tyr Leu Gly Tyr
 20 25 30
 Tyr Trp Ala Cys Val Leu Gln Arg Pro Arg Leu Val Ala Gly Pro Gln
 35 40 45
 Phe Leu Ala Phe Leu Glu Pro His Cys Ser Ile Thr Thr Glu Thr Phe
 50 55 60
 Tyr Pro Thr Leu Trp Cys Phe Glu Gly Arg Leu Gln Ser Ile Phe Gln
 65 70 75 80
 Val Leu Leu Gln Ser Gln Pro Leu Val Leu Tyr Gln Ser Asp Ile Leu
 85 90 95
 Gln Thr Pro Asp Gly Gly Gln Leu Leu Asp Trp Ala Lys Gln Pro
 100 105 110
 Asp Ser Ser Gln Asp Pro Asp Pro Thr Thr Gln Pro Ile Val Leu Leu
 115 120 125
 Leu Pro Gly Ile Thr Gly Ser Ser Gln Asp Thr Tyr Val Leu His Leu
 130 135 140
 Val Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn
 145 150 155 160
 Arg Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala
 165 170 175
 Ser Asn Thr Glu Asp Leu Glu Thr Val Val Asn His Ile Lys His Arg
 180 185 190
 Tyr Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile
 195 200 205
 Leu Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val
 210 215 220
 Ala Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg
 225 230 235 240
 Ser Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr
 245 250 255
 Ala Gly Leu Cys Gln Leu Val Glu Arg Asn Arg Lys Val Ile Glu Lys
 260 265 270
 Val Val Asp Ile Asp Phe Val Leu Gln Ala Arg Thr Ile Arg Gln Phe
 275 280 285
 Asp Glu Arg Tyr Thr Ser Val Ala Phe Gly Tyr Gln Asp Cys Val Thr
 290 295 300
 Tyr Tyr Lys Ala Ala Ser Pro Arg Thr Lys Ile Asp Ala Ile Arg Ile
 305 310 315 320
 Pro Val Leu Tyr Leu Ser Ala Ala Asp Asp Pro Phe Ser Pro Val Cys
 325 330 335
 Ala Leu Pro Ile Gln Ala Ala Gln His Ser Pro Tyr Val Ala Leu Leu
 340 345 350
 Ile Thr Ala Arg Gly Gly His Ile Gly Phe Leu Glu Gly Leu Leu Pro
 355 360 365
 Trp Gln His Trp Tyr Met Ser Arg Leu Leu His Gln Tyr Ala Lys Ala
 370 375 380
 Ile Phe Gln Asp Pro Glu Gly Leu Pro Asp Leu Arg Ala Leu Leu Pro
 385 390 395 400
 Ser Glu Asp Arg Asn
 405

<210> 51

<400> 51
000<210> 52
<211> 284

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<212> PRT

<213> Homo sapiens

<400> 52

Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile Glu His Gly
 1 5 10 15
 Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser His Val Asn
 20 25 30
 Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn Asp Thr Ser
 35 40 45
 Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu Pro Leu Gly
 50 55 60
 Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp Glu Gly Gln
 65 70 75 80
 Tyr Gln Cys Ile Ile Tyr Gly Val Ala Trp Asp Tyr Lys Tyr Leu
 85 90 95
 Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr His Ile Leu
 100 105 110
 Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln Ala Thr Gly
 115 120 125
 Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val Pro Ala Asn
 130 135 140
 Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val Thr Ser Val
 145 150 155 160
 Leu Arg Leu Lys Pro Pro Gly Arg Asn Phe Ser Cys Val Phe Trp
 165 170 175
 Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser
 180 185 190
 Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His Ile Phe Ile
 195 200 205
 Pro Phe Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val Ile Ala Leu
 210 215 220
 Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp Val Ser Ile
 225 230 235 240
 His Cys Ala Lys Val Thr Leu Leu Val Pro Ile Pro Thr Gln Thr Thr
 245 250 255
 Val Leu Gln Asp Tyr Ser Ser Tyr Gly Ser Pro Thr His Ala Leu Ser
 260 265 270
 Leu Val Pro Lys Gln Asp Pro Tyr Gly Leu Met Arg
 275 280

<210> 53

<211> 442

<212> PRT

<213> Homo sapiens

<400> 53

Met Ala Arg Gly Tyr Gly Ala Thr Val Ser Leu Val Leu Leu Gly Leu
 1 5 10 15
 Gly Leu Ala Leu Ala Val Ile Val Leu Ala Val Val Leu Ser Arg His
 20 25 30
 Gln Ala Pro Cys Gly Pro Gln Ala Phe Ala His Ala Ala Val Ala Ala
 35 40 45
 Asp Ser Lys Val Cys Ser Asp Ile Gly Arg Ala Ile Leu Gln Gln Gln
 50 55 60
 Gly Ser Pro Val Asp Ala Thr Ile Ala Ala Leu Val Cys Thr Ser Val
 65 70 75 80
 Val Asn Pro Gln Ser Met Gly Leu Gly Gly Val Ile Phe Thr Ile
 85 90 95
 Tyr Asn Val Thr Thr Gly Ala Gln Trp Ile Gly Val Pro Gly Glu Leu
 100 105 110
 Arg Gly Tyr Ala Glu Ala His Arg Arg His Gly Arg Leu Pro Trp Ala
 115 120 125

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Gln Leu Phe Gln Pro Thr Ile Ala Leu Leu Arg Gly Gly His Val Val
 130 135 140
 Ala Pro Val Leu Ser Arg Phe Leu His Asn Ser Ile Leu Arg Pro Ser
 145 150 155 160
 Leu Gln Ala Ser Thr Leu Arg Gln Leu Phe Phe Asn Gly Thr Glu Pro
 165 170 175
 Leu Arg Pro Gln Asp Pro Leu Pro Trp Pro Ala Leu Ala Thr Thr Leu
 180 185 190
 Glu Thr Val Ala Thr Glu Gly Val Glu Val Phe Tyr Thr Gly Arg Leu
 195 200 205
 Gly Gln Met Leu Val Glu Asp Ile Ala Lys Glu Gly Ser Gln Leu Thr
 210 215 220
 Leu Gln Asp Leu Ala Lys Phe Gln Pro Glu Val Val Asp Ala Leu Glu
 225 230 235 240
 Val Pro Leu Gly Asp Tyr Thr Leu Tyr Ser Pro Pro Pro Ala Gly
 245 250 255
 Gly Ala Ile Leu Ser Phe Ile Leu Asn Val Leu Arg Gly Phe Asn Phe
 260 265 270
 Ser Thr Glu Ser Met Ala Arg Pro Glu Gly Arg Val Asn Val Tyr His
 275 280 285
 His Leu Val Glu Thr Leu Lys Phe Ala Lys Gly Gln Arg Trp Arg Leu
 290 295 300
 Gly Asp Pro Arg Ser His Pro Lys Leu Gln Asn Ala Ser Arg Asp Leu
 305 310 315 320
 Leu Gly Glu Thr Leu Ala Gln Leu Ile Arg Gln Gln Ile Asp Gly Arg
 325 330 335
 Gly Asp His Gln Leu Ser His Tyr Ser Leu Ala Glu Ala Trp Gly His
 340 345 350
 Gly Thr Gly Thr Ser His Val Ser Val Leu Gly Glu Asp Gly Ser Ala
 355 360 365
 Val Ala Ala Thr Ser Thr Ile Asn Thr Pro Phe Gly Ala Met Val Tyr
 370 375 380
 Ser Pro Arg Thr Gly Ile Ile Leu Asn Asn Glu Leu Leu Asp Leu Cys
 385 390 395 400
 Glu Arg Cys Pro Arg Gly Ser Gly Thr Thr Pro Ser Pro Val Glu Thr
 405 410 415
 Gly Trp Val Glu Leu Pro Glu Gly Ala Gly Pro Gln Phe Gln Ala Ser
 420 425 430
 Val Pro His Pro Pro Trp Cys Pro Pro Ser
 435 440

<210> 54

<211> 1047

<212> PRT

<213> Homo sapiens

<400> 54

Met Ala Val Thr Leu Asp Lys Asp Ala Tyr Tyr Arg Arg Val Lys Arg
 1 5 10 15
 Leu Tyr Ser Asn Trp Arg Lys Gly Glu Asp Glu Tyr Ala Asn Val Asp
 20 25 30
 Ala Ile Val Val Ser Val Gly Val Asp Glu Glu Ile Val Tyr Ala Lys
 35 40 45
 Ser Thr Ala Leu Gln Thr Trp Leu Phe Gly Tyr Glu Leu Thr Asp Thr
 50 55 60
 Ile Met Val Phe Cys Asp Asp Lys Ile Ile Phe Met Ala Ser Lys Lys
 65 70 75 80
 Lys Val Glu Phe Leu Lys Gln Ile Ala Asn Thr Lys Gly Asn Glu Asn
 85 90 95
 Ala Asn Gly Ala Pro Ala Ile Thr Leu Leu Ile Arg Glu Lys Asn Glu
 100 105 110
 Ser Asn Lys Ser Ser Phe Asp Lys Met Ile Glu Ala Ile Lys Glu Ser
 115 120 125

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Lys Asn Gly Lys Lys Ile Gly Val Phe Ser Lys Asp Lys Phe Pro Gly
 130 135 140
 Glu Phe Met Lys Ser Trp Asn Asp Cys Leu Asn Lys Glu Gly Phe Asp
 145 150 155 160
 Lys Ile Asp Ile Ser Ala Val Val Ala Tyr Thr Ile Ala Val Lys Glu
 165 170 175
 Asp Gly Glu Leu Asn Leu Met Lys Lys Ala Ala Ser Ile Thr Ser Glu
 180 185 190
 Val Phe Asn Lys Phe Phe Lys Glu Arg Val Met Glu Ile Val Asp Ala
 195 200 205
 Asp Glu Lys Val Arg His Ser Lys Leu Ala Glu Ser Val Glu Lys Ala
 210 215 220
 Ile Glu Glu Lys Lys Tyr Leu Ala Gly Ala Asp Pro Ser Thr Val Glu
 225 230 235 240
 Met Cys Tyr Pro Pro Ile Ile Gln Ser Gly Gly Asn Tyr Asn Leu Lys
 245 250 255
 Phe Ser Val Val Ser Asp Lys Asn His Met His Phe Gly Ala Ile Thr
 260 265 270
 Cys Ala Met Gly Ile Arg Phe Lys Ser Tyr Cys Ser Asn Leu Val Arg
 275 280 285
 Thr Leu Met Val Asp Pro Ser Gln Glu Val Gln Glu Asn Tyr Asn Phe
 290 295 300
 Leu Leu Gln Leu Gln Glu Glu Leu Leu Lys Glu Leu Arg His Gly Val
 305 310 315 320
 Lys Ile Cys Asp Val Tyr Asn Ala Val Met Asp Val Val Lys Lys Gln
 325 330 335
 Lys Pro Glu Leu Leu Asn Lys Ile Thr Lys Asn Leu Gly Phe Gly Met
 340 345 350
 Gly Ile Glu Phe Arg Glu Gly Ser Leu Val Ile Asn Ser Lys Asn Gln
 355 360 365
 Tyr Lys Leu Lys Lys Gly Met Val Phe Ser Ile Asn Leu Gly Phe Ser
 370 375 380
 Asp Leu Thr Asn Lys Glu Gly Lys Lys Pro Glu Glu Lys Thr Tyr Ala
 385 390 395 400
 Leu Phe Ile Gly Asp Thr Val Leu Val Asp Glu Asp Gly Pro Ala Thr
 405 410 415
 Val Leu Thr Ser Val Lys Lys Val Lys Asn Val Gly Ile Phe Leu
 420 425 430
 Lys Asn Glu Asp Glu Glu Glu Glu Glu Lys Asp Glu Ala Glu
 435 440 445
 Asp Leu Leu Gly Arg Gly Ser Arg Ala Ala Leu Leu Thr Glu Arg Thr
 450 455 460
 Arg Asn Glu Met Thr Ala Glu Glu Lys Arg Arg Ala His Gln Lys Glu
 465 470 475 480
 Leu Ala Ala Gln Leu Asn Glu Glu Ala Lys Arg Arg Leu Thr Glu Gln
 485 490 495
 Lys Gly Glu Gln Gln Ile Gln Lys Ala Arg Lys Ser Asn Val Ser Tyr
 500 505 510
 Lys Asn Pro Ser Leu Met Pro Lys Glu Pro His Ile Arg Glu Met Lys
 515 520 525
 Ile Tyr Ile Asp Lys Lys Tyr Glu Thr Val Ile Met Pro Val Phe Gly
 530 535 540
 Ile Ala Thr Pro Phe His Ile Ala Thr Ile Lys Asn Ile Ser Met Ser
 545 550 555 560
 Val Glu Gly Asp Tyr Thr Tyr Leu Arg Ile Asn Phe Tyr Cys Pro Gly
 565 570 575
 Ser Ala Leu Gly Arg Asn Glu Gly Asn Ile Phe Pro Asn Pro Glu Ala
 580 585 590
 Thr Phe Val Lys Glu Ile Thr Tyr Arg Ala Ser Asn Ile Lys Ala Pro
 595 600 605
 Gly Glu Gln Thr Val Pro Ala Leu Asn Leu Gln Asn Ala Phe Arg Ile
 610 615 620
 Ile Lys Glu Val Gln Lys Arg Tyr Lys Thr Arg Glu Ala Glu Glu Lys

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625	630	635	640												
Glu	Lys	Glu	Gly	Ile	Val	Lys	Gln	Asp	Ser	Leu	Val	Ile	Asn	Leu	Asn
				645		650						655			
Arg	Ser	Asn	Pro	Lys	Leu	Lys	Asp	Leu	Tyr	Ile	Arg	Pro	Asn	Ile	Ala
				660		665					670				
Gln	Lys	Arg	Met	Gln	Gly	Ser	Leu	Glu	Ala	His	Val	Asn	Gly	Phe	Arg
				675		680				685					
Phe	Thr	Ser	Val	Arg	Gly	Asp	Lys	Val	Asp	Ile	Leu	Tyr	Asn	Asn	Ile
				690		695				700					
Lys	His	Ala	Leu	Phe	Gln	Pro	Cys	Asp	Gly	Glu	Met	Ile	Ile	Val	Leu
				705		710				715				720	
His	Phe	His	Leu	Lys	Asn	Ala	Ile	Met	Phe	Gly	Lys	Lys	Arg	His	Thr
				725		730				735					
Asp	Val	Gln	Phe	Tyr	Thr	Glu	Val	Gly	Glu	Ile	Thr	Thr	Asp	Leu	Gly
				740		745				750					
Lys	His	Gln	His	Met	His	Asp	Arg	Asp	Asp	Leu	Tyr	Ala	Glu	Gln	Met
				755		760				765					
Glu	Arg	Glu	Met	Arg	His	Lys	Leu	Lys	Thr	Ala	Phe	Lys	Asn	Phe	Ile
				770		775				780					
Glu	Lys	Val	Glu	Ala	Leu	Thr	Lys	Glu	Glu	Leu	Glu	Phe	Glu	Val	Pro
				785		790				795				800	
Phe	Arg	Asp	Leu	Gly	Phe	Asn	Gly	Ala	Pro	Tyr	Arg	Ser	Thr	Cys	Leu
				805		810				815					
Leu	Gln	Pro	Thr	Ser	Ser	Ala	Leu	Val	Asn	Ala	Thr	Glu	Trp	Pro	Pro
				820		825				830					
Phe	Val	Val	Thr	Leu	Asp	Glu	Val	Glu	Leu	Ile	His	Phe	Glu	Arg	Val
				835		840				845					
Gln	Phe	His	Leu	Lys	Asn	Phe	Asp	Met	Val	Ile	Val	Tyr	Lys	Asp	Tyr
				850		855				860					
Ser	Lys	Lys	Val	Thr	Met	Ile	Asn	Ala	Ile	Pro	Val	Ala	Ser	Leu	Asp
				865		870				875				880	
Pro	Ile	Lys	Glu	Trp	Leu	Asn	Ser	Cys	Asp	Leu	Lys	Tyr	Thr	Glu	Gly
				885		890				895					
Val	Gln	Ser	Leu	Asn	Trp	Thr	Lys	Ile	Met	Lys	Thr	Ile	Val	Asp	Asp
				900		905				910					
Pro	Glu	Gly	Phe	Phe	Glu	Gln	Gly	Gly	Trp	Ser	Phe	Leu	Glu	Pro	Glu
				915		920				925					
Gly	Glu	Gly	Ser	Asp	Ala	Glu	Glu	Gly	Asp	Ser	Glu	Ser	Glu	Ile	Glu
				930		935				940					
Asp	Glu	Thr	Phe	Asn	Pro	Ser	Glu	Asp	Asp	Tyr	Glu	Glu	Glu	Glu	Glu
				945		950				955				960	
Asp	Ser	Asp	Glu	Asp	Tyr	Ser	Ser	Glu	Ala	Glu	Glu	Ser	Asp	Tyr	Ser
				965		970				975					
Lys	Glu	Ser	Leu	Gly	Ser	Glu	Glu	Ser	Gly	Lys	Asp	Trp	Asp	Glu	
				980		985				990					
Leu	Glu	Glu	Glu	Ala	Arg	Lys	Ala	Asp	Arg	Glu	Ser	Arg	Tyr	Glu	Glu
				995		1000				1005					
Glu	Glu	Glu	Gln	Ser	Arg	Ser	Met	Ser	Arg	Lys	Arg	Lys	Ala	Ser	Val
				1010		1015				1020					
His	Ser	Ser	Gly	Arg	Gly	Ser	Asn	Arg	Gly	Ser	Arg	His	Ser	Ser	Ala
				1025		1030				1035				1040	
Pro	Pro	Lys	Lys	Lys	Arg	Lys									
				1045											

<210> 55
<211> 1530
<212> PRT
<213> Homo sapiens

<400> 55
Ser Pro Ile Leu Cys Gly Ala Ala Thr Ala Leu Asn Cys Ser Leu Cys
1 5 10 15
Pro Gln Asp Ser Asn Leu Ser Val His Thr Glu Asn Pro Asp Leu Thr

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20	25	30
Pro Cys Phe Gln Asn Ser Leu	Leu Ala Trp Val Pro Cys Ile Tyr Leu	
35	40	45
Trp Val Ala Leu Pro Cys Tyr	Leu Leu Tyr Leu Arg His His Cys Arg	
50	55	60
Gly Tyr Ile Ile Leu Ser His	Leu Ser Lys Leu Lys Met Val Leu Gly	
65	70	75
Val Leu Leu Trp Cys Val Ser Trp Ala Asp Leu Phe Tyr Ser Phe His		80
85	90	95
Gly Leu Val His Gly Arg Ala Pro Ala Pro Val Phe Phe Val Thr Pro		
100	105	110
Leu Val Val Gly Val Thr Met	Leu Leu Ala Thr Leu Leu Ile Gln Tyr	
115	120	125
Glu Arg Leu Gln Gly Val Gln Ser Ser Gly Val Leu Ile Ile Phe Trp		
130	135	140
Phe Leu Cys Val Val Cys Ala Ile Val Pro Phe Arg Ser Lys Ile Leu		
145	150	155
Leu Ala Lys Ala Glu Gly Glu Ile Ser Asp Pro Phe Arg Phe Thr Thr		160
165	170	175
Phe Tyr Ile His Phe Ala Leu Val Leu Ser Ala Leu Ile Leu Ala Cys		
180	185	190
Phe Arg Glu Lys Pro Pro Phe Phe Ser Ala Lys Asn Val Asp Pro Asn		
195	200	205
Pro Tyr Pro Glu Thr Ser Ala Gly Phe Leu Ser Arg Leu Phe Phe Trp		
210	215	220
Trp Phe Thr Lys Met Ala Ile Tyr Gly Tyr Arg His Pro Leu Glu Glu		
225	230	235
Lys Asp Leu Trp Ser Leu Lys Glu Glu Asp Arg Ser Gln Met Val Val		240
245	250	255
Gln Gln Leu Leu Glu Ala Trp Arg Lys Gln Glu Lys Gln Thr Ala Arg		
260	265	270
His Lys Ala Ser Ala Ala Pro Gly Lys Asn Ala Ser Gly Glu Asp Glu		
275	280	285
Val Leu Leu Gly Ala Arg Pro Arg Pro Arg Lys Pro Ser Phe Leu Lys		
290	295	300
Ala Leu Leu Ala Thr Phe Gly Ser Ser Phe Leu Ile Ser Ala Cys Phe		
305	310	315
Lys Leu Ile Gln Asp Leu Leu Ser Phe Ile Asn Pro Gln Leu Leu Ser		320
325	330	335
Ile Leu Ile Arg Phe Ile Ser Asn Pro Met Ala Pro Ser Trp Trp Gly		
340	345	350
Phe Leu Val Ala Gly Leu Met Phe Leu Cys Ser Met Met Gln Ser Leu		
355	360	365
Ile Leu Gln His Tyr Tyr His Tyr Ile Phe Val Thr Gly Val Lys Phe		
370	375	380
Arg Thr Gly Ile Met Gly Val Ile Tyr Arg Lys Ala Leu Val Ile Thr		
385	390	395
Asn Ser Val Lys Arg Ala Ser Thr Val Gly Glu Ile Val Asn Leu Met		400
405	410	415
Ser Val Asp Ala Gln Arg Phe Met Asp Leu Ala Pro Phe Leu Asn Leu		
420	425	430
Leu Trp Ser Ala Pro Leu Gln Ile Ile Leu Ala Ile Tyr Phe Leu Trp		
435	440	445
Gln Asn Leu Gly Pro Ser Val Leu Ala Gly Val Ala Phe Met Val Leu		
450	455	460
Leu Ile Pro Leu Asn Gly Ala Val Ala Val Lys Met Arg Ala Phe Gln		
465	470	475
Val Lys Gln Met Lys Leu Lys Asp Ser Arg Ile Lys Leu Met Ser Glu		480
485	490	495
Ile Leu Asn Gly Ile Lys Val Leu Lys Leu Tyr Ala Trp Glu Pro Ser		
500	505	510
Phe Leu Lys Gln Val Glu Gly Ile Arg Gln Gly Glu Leu Gln Leu Leu		
515	520	525

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Arg Thr Ala Ala Tyr Leu His Thr Thr Thr Phe Thr Trp Met Cys
 530 535 540
 Ser Pro Phe Leu Val Thr Leu Ile Thr Leu Trp Val Tyr Val Tyr Val
 545 550 555 560
 Asp Pro Asn Asn Val Leu Asp Ala Glu Lys Ala Phe Val Ser Val Ser
 565 570 575
 Leu Phe Asn Ile Leu Arg Leu Pro Leu Asn Met Leu Pro Gln Leu Ile
 580 585 590
 Ser Asn Leu Thr Gln Ala Ser Val Ser Leu Lys Arg Ile Gln Gln Phe
 595 600 605
 Leu Ser Gln Glu Glu Leu Asp Pro Gln Ser Val Glu Arg Lys Thr Ile
 610 615 620
 Ser Pro Gly Tyr Ala Ile Thr Ile His Ser Gly Thr Phe Thr Trp Ala
 625 630 635 640
 Gln Asp Leu Pro Pro Thr Leu His Ser Leu Asp Ile Gln Val Pro Lys
 645 650 655
 Gly Ala Leu Val Ala Val Val Gly Pro Val Gly Cys Gly Lys Ser Ser
 660 665 670
 Leu Val Ser Ala Leu Leu Gly Glu Met Glu Lys Leu Glu Gly Lys Val
 675 680 685
 His Met Lys Gly Ser Val Ala Tyr Val Pro Gln Gln Ala Trp Ile Gln
 690 695 700
 Asn Cys Thr Leu Gln Glu Asn Val Leu Phe Gly Lys Ala Leu Asn Pro
 705 710 715 720
 Lys Arg Tyr Gln Gln Thr Leu Glu Ala Cys Ala Leu Leu Ala Asp Leu
 725 730 735
 Glu Met Leu Pro Gly Gly Asp Gln Thr Glu Ile Gly Glu Lys Gly Ile
 740 745 750
 Asn Leu Ser Gly Gly Gln Arg Gln Arg Val Ser Leu Ala Arg Ala Val
 755 760 765
 Tyr Ser Asp Ala Asp Ile Phe Leu Leu Asp Asp Pro Leu Ser Ala Val
 770 775 780
 Asp Ser His Val Ala Lys His Ile Phe Asp His Val Ile Gly Pro Glu
 785 790 795 800
 Gly Val Leu Ala Gly Lys Thr Arg Val Leu Val Thr His Gly Ile Ser
 805 810 815
 Phe Leu Pro Gln Thr Asp Phe Ile Ile Val Leu Ala Asp Gly Gln Val
 820 825 830
 Ser Glu Met Gly Pro Tyr Pro Ala Leu Leu Gln Arg Asn Gly Ser Phe
 835 840 845
 Ala Asn Phe Leu Cys Asn Tyr Ala Pro Asp Glu Asp Gln Gly His Leu
 850 855 860
 Glu Asp Ser Trp Thr Ala Leu Glu Gly Ala Glu Asp Lys Glu Ala Leu
 865 870 875 880
 Leu Ile Glu Asp Thr Leu Ser Asn His Thr Asp Leu Thr Asp Asn Asp
 885 890 895
 Pro Val Thr Tyr Val Val Gln Lys Gln Phe Met Arg Gln Leu Ser Ala
 900 905 910
 Leu Ser Ser Asp Gly Glu Gly Gln Gly Arg Pro Val Pro Arg Arg His
 915 920 925
 Leu Gly Pro Ser Glu Lys Val Gln Val Thr Glu Ala Lys Ala Asp Gly
 930 935 940
 Ala Leu Thr Gln Glu Glu Lys Ala Ala Ile Gly Thr Val Glu Leu Ser
 945 950 955 960
 Val Phe Trp Asp Tyr Ala Lys Ala Val Gly Leu Cys Thr Thr Leu Ala
 965 970 975
 Ile Cys Leu Leu Tyr Val Gly Gln Ser Ala Ala Ala Ile Gly Ala Asn
 980 985 990
 Val Trp Leu Ser Ala Trp Thr Asn Asp Ala Met Ala Asp Ser Arg Gln
 995 1000 1005
 Asn Asn Thr Ser Leu Arg Leu Gly Val Tyr Ala Ala Leu Gly Ile Leu
 1010 1015 1020
 Gln Gly Phe Leu Val Met Leu Ala Ala Met Ala Met Ala Ala Gly Gly

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1025 1030 1035 1040
 Ile Gln Ala Ala Arg Val Leu His Gln Ala Leu Leu His Asn Lys Ile
 1045 1050 1055
 Arg Ser Pro Gln Ser Phe Phe Asp Thr Thr Pro Ser Gly Arg Ile Leu
 1060 1065 1070
 Asn Cys Phe Ser Lys Asp Ile Tyr Val Val Asp Glu Val Leu Ala Pro
 1075 1080 1085
 Val Ile Leu Met Leu Leu Asn Ser Phe Phe Asn Ala Ile Ser Thr Leu
 1090 1095 1100
 Val Val Ile Met Ala Ser Thr Pro Leu Phe Thr Val Val Ile Leu Pro
 1105 1110 1115 1120
 Leu Ala Val Leu Tyr Thr Leu Val Gln Arg Phe Tyr Ala Ala Thr Ser
 1125 1130 1135
 Arg Gln Leu Lys Arg Leu Glu Ser Val Ser Arg Ser Pro Ile Tyr Ser
 1140 1145 1150
 His Phe Ser Glu Thr Val Thr Gly Ala Ser Val Ile Arg Ala Tyr Asn
 1155 1160 1165
 Arg Ser Arg Asp Phe Glu Ile Ile Ser Asp Thr Lys Val Asp Ala Asn
 1170 1175 1180
 Gln Arg Ser Cys Tyr Pro Tyr Ile Ile Ser Asn Arg Trp Leu Ser Ile
 1185 1190 1195 1200
 Gly Val Glu Phe Val Gly Asn Cys Val Val Leu Phe Ala Ala Leu Phe
 1205 1210 1215
 Ala Val Ile Gly Arg Ser Ser Leu Asn Pro Gly Leu Val Gly Leu Ser
 1220 1225 1230
 Val Ser Tyr Ser Leu Gln Val Thr Phe Ala Leu Asn Trp Met Ile Arg
 1235 1240 1245
 Met Met Ser Asp Leu Glu Ser Asn Ile Val Ala Val Glu Arg Val Lys
 1250 1255 1260
 Glu Tyr Ser Lys Thr Glu Thr Glu Ala Pro Trp Val Val Glu Gly Ser
 1265 1270 1275 1280
 Arg Pro Pro Glu Gly Trp Pro Pro Arg Gly Glu Val Glu Phe Arg Asn
 1285 1290 1295
 Tyr Ser Val Arg Tyr Arg Pro Gly Leu Asp Leu Val Leu Arg Asp Leu
 1300 1305 1310
 Ser Leu His Val His Gly Gly Glu Lys Val Gly Ile Val Gly Arg Thr
 1315 1320 1325
 Gly Ala Gly Lys Ser Ser Met Thr Leu Cys Leu Phe Arg Ile Leu Glu
 1330 1335 1340
 Ala Ala Lys Gly Glu Ile Arg Ile Asp Gly Leu Asn Val Ala Asp Ile
 1345 1350 1355 1360
 Gly Leu His Asp Leu Arg Ser Gln Leu Thr Ile Ile Pro Gln Asp Pro
 1365 1370 1375
 Ile Leu Phe Ser Gly Thr Leu Arg Met Asn Leu Asp Pro Phe Gly Ser
 1380 1385 1390
 Tyr Ser Glu Glu Asp Ile Trp Trp Ala Leu Glu Leu Ser His Leu His
 1395 1400 1405
 Thr Phe Val Ser Ser Gln Pro Ala Gly Leu Asp Phe Gln Cys Ser Glu
 1410 1415 1420
 Gly Gly Glu Asn Leu Ser Val Gly Gln Arg Gln Leu Val Cys Leu Ala
 1425 1430 1435 1440
 Arg Ala Leu Leu Arg Lys Ser Arg Ile Leu Val Leu Asp Glu Ala Thr
 1445 1450 1455
 Ala Ala Ile Asp Leu Glu Thr Asp Asn Leu Ile Gln Ala Thr Ile Arg
 1460 1465 1470
 Thr Gln Phe Asp Thr Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn
 1475 1480 1485
 Thr Ile Met Asp Tyr Thr Arg Val Leu Val Leu Asp Lys Gly Val Val
 1490 1495 1500
 Ala Glu Phe Asp Ser Pro Ala Asn Leu Ile Ala Ala Arg Gly Ile Phe
 1505 1510 1515 1520
 Tyr Gly Met Ala Arg Asp Ala Gly Leu Ala
 1525 1530

GC773-2-seqlist

<210> 56
<211> 533
<212> PRT
<213> Homo sapiens

<400> 56
Pro Tyr Cys Ser Leu Pro Arg Ala Pro Leu His Gly Phe Ile Leu Gly
1 5 10 15
Gln Thr Ser Thr Gln Pro Gly Gly Ser Ile His Phe Gly Cys Asn Ala
20 25 30
Gly Tyr Arg Leu Val Gly His Ser Met Ala Ile Cys Thr Arg His Pro
35 40 45
Gln Gly Tyr His Leu Trp Ser Glu Ala Ile Pro Leu Cys Gln Ala Leu
50 55 60
Ser Cys Gly Leu Pro Glu Ala Pro Lys Asn Gly Met Val Phe Gly Lys
65 70 75 80
Glu Tyr Thr Val Gly Thr Lys Ala Met Tyr Ser Cys Ser Glu Gly Tyr
85 90 95
His Leu Gln Ala Gly Ala Glu Ala Thr Ala Glu Cys Leu Asp Thr Gly
100 105 110
Leu Trp Ser Asn Arg Asn Val Pro Pro Gln Cys Val Pro Val Thr Cys
115 120 125
Pro Asp Val Ser Ser Ile Ser Val Glu His Gly Arg Trp Arg Leu Ile
130 135 140
Phe Glu Thr Gln Tyr Gln Phe Gln Ala Gln Leu Met Leu Ile Cys Asp
145 150 155 160
Pro Gly Tyr Tyr Tyr Thr Gly Gln Arg Val Ile Arg Cys Gln Ala Asn
165 170 175
Gly Lys Trp Ser Leu Gly Asp Ser Thr Pro Thr Cys Arg Ile Leu Ala
180 185 190
Lys Gln Lys Gln Pro Cys Pro Ser Ser Trp Gly Trp Leu Thr Glu His
195 200 205
Leu Val Ile Ile Leu Val Ile Ser Cys Gly Glu Leu Pro Ile Pro Pro
210 215 220
Asn Gly His Arg Ile Gly Thr Leu Ser Val Tyr Gly Ala Thr Ala Ile
225 230 235 240
Phe Ser Cys Asn Ser Gly Tyr Thr Leu Val Gly Ser Arg Val Arg Glu
245 250 255
Cys Met Ala Asn Gly Leu Trp Ser Gly Ser Glu Val Arg Cys Leu Ala
260 265 270
Thr Gln Thr Lys Leu His Ser Ile Phe Tyr Lys Leu Leu Phe Asp Val
275 280 285
Leu Ser Ser Pro Ser Leu Thr Lys Ala Gly His Cys Gly Thr Pro Glu
290 295 300
Pro Ile Val Asn Gly His Ile Asn Gly Glu Asn Tyr Ser Tyr Arg Gly
305 310 315 320
Ser Val Val Tyr Gln Cys Asn Ala Gly Phe Arg Leu Ile Gly Met Ser
325 330 335
Val Arg Ile Cys Gln Gln Asp His His Trp Ser Gly Lys Thr Pro Phe
340 345 350
Cys Val Pro Ile Thr Cys Gly His Pro Gly Asn Pro Val Asn Gly Leu
355 360 365
Thr Gln Gly Asn Gln Phe Asn Leu Asn Asp Val Val Lys Phe Val Cys
370 375 380
Asn Pro Gly Tyr Met Ala Glu Gly Ala Ala Arg Ser Gln Cys Leu Ala
385 390 395 400
Ser Gly Gln Trp Ser Asp Met Leu Pro Thr Cys Arg Ile Ile Asn Cys
405 410 415
Thr Asp Pro Gly His Gln Glu Asn Ser Val Arg Gln Val His Ala Ser
420 425 430
Gly Pro His Arg Phe Ser Phe Gly Thr Thr Val Ser Tyr Arg Cys Asn
435 440 445

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His Gly Phe Tyr Leu Leu Gly Thr Pro Val Leu Ser Cys Gln Gly Asp
 450 455 460
 Gly Thr Trp Asp Arg Pro Arg Pro Gln Cys Leu Leu Val Ser Cys Gly
 465 470 475 480
 His Pro Gly Ser Pro Pro His Ser Gln Met Ser Gly Asp Ser Tyr Thr
 485 490 495
 Val Gly Ala Val Val Arg Tyr Ser Cys Ile Gly Lys Arg Thr Leu Val
 500 505 510
 Gly Asn Ser Thr Arg Met Cys Gly Leu Asp Gly His Trp Thr Gly Ser
 515 520 525
 Leu Pro His Cys Ser
 530

<210> 57
 <211> 1584
 <212> PRT
 <213> Homo sapiens

<400> 57

Pro Leu Ala Phe Cys Gly Ser Glu Asn His Ser Ala Ala Tyr Arg Val
 1 5 10 15
 Asp Gln Gly Val Leu Asn Asn Gly Cys Phe Val Asp Ala Leu Asn Val
 20 25 30
 Val Pro His Val Phe Leu Leu Phe Ile Thr Phe Pro Ile Leu Phe Ile
 35 40 45
 Gly Trp Gly Ser Gln Ser Ser Lys Val His Ile His His Ser Thr Trp
 50 55 60
 Leu His Phe Pro Gly His Asn Leu Arg Trp Ile Leu Thr Phe Met Leu
 65 70 75 80
 Leu Phe Val Leu Val Cys Glu Ile Ala Glu Gly Ile Leu Ser Asp Gly
 85 90 95
 Val Thr Glu Ser His His Leu His Leu Tyr Met Pro Ala Gly Met Ala
 100 105 110
 Phe Met Ala Ala Val Thr Ser Val Val Tyr Tyr His Asn Ile Glu Thr
 115 120 125
 Ser Asn Phe Pro Lys Leu Leu Ile Ala Leu Leu Val Tyr Trp Thr Leu
 130 135 140
 Ala Phe Ile Thr Lys Thr Ile Lys Phe Val Lys Phe Leu Asp His Ala
 145 150 155 160
 Ile Gly Phe Ser Gln Leu Arg Phe Cys Leu Thr Gly Leu Leu Val Ile
 165 170 175
 Leu Tyr Gly Met Leu Leu Leu Val Glu Val Asn Val Ile Arg Val Arg
 180 185 190
 Arg Tyr Ile Phe Phe Lys Thr Pro Arg Glu Val Lys Pro Pro Glu Asp
 195 200 205
 Leu Gln Asp Leu Gly Val Arg Phe Leu Gln Pro Phe Val Asn Leu Leu
 210 215 220
 Ser Lys Gly Thr Tyr Trp Trp Met Asn Ala Phe Ile Lys Thr Ala His
 225 230 235 240
 Lys Lys Pro Ile Asp Leu Arg Ala Ile Gly Lys Leu Pro Ile Ala Met
 245 250 255
 Arg Ala Leu Thr Asn Tyr Gln Arg Leu Cys Glu Ala Phe Asp Ala Gln
 260 265 270
 Val Arg Lys Asp Ile Gln Gly Thr Gln Gly Ala Arg Ala Ile Trp Gln
 275 280 285
 Ala Leu Ser His Ala Phe Gly Arg Arg Leu Val Leu Ser Ser Thr Phe
 290 295 300
 Arg Ile Leu Ala Asp Leu Leu Gly Phe Ala Gly Pro Leu Cys Ile Phe
 305 310 315 320
 Gly Ile Val Asp His Leu Gly Lys Glu Asn Asp Val Phe Gln Pro Lys
 325 330 335
 Thr Gln Phe Leu Gly Val Tyr Phe Val Ser Ser Gln Glu Phe Leu Ala
 340 345 350

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Asn Ala Tyr Val Leu Ala Val Leu Leu Phe Leu Ala Leu Leu Leu Gln
 355 360 365
 Arg Thr Phe Leu Gln Ala Ser Tyr Tyr Val Ala Ile Glu Thr Gly Ile
 370 375 380
 Asn Leu Arg Gly Ala Ile Gln Thr Lys Ile Tyr Asn Lys Ile Met His
 385 390 395 400
 Leu Ser Thr Ser Asn Leu Ser Met Gly Glu Met Thr Ala Gly Gln Ile
 405 410 415
 Cys Asn Leu Val Ala Ile Asp Thr Asn Gln Leu Met Trp Phe Phe
 420 425 430
 Leu Cys Pro Asn Leu Trp Ala Met Pro Val Gln Ile Ile Val Gly Val
 435 440 445
 Ile Leu Leu Tyr Tyr Ile Leu Gly Val Ser Ala Leu Ile Gly Ala Ala
 450 455 460
 Val Ile Ile Leu Leu Ala Pro Val Gln Tyr Phe Val Ala Thr Lys Leu
 465 470 475 480
 Ser Gln Ala Gln Arg Ser Thr Leu Glu Tyr Ser Asn Glu Arg Leu Lys
 485 490 495
 Gln Thr Asn Glu Met Leu Arg Gly Ile Lys Leu Leu Lys Leu Tyr Ala
 500 505 510
 Trp Glu Asn Ile Phe Arg Thr Arg Val Glu Thr Thr Arg Arg Lys Glu
 515 520 525
 Met Thr Ser Leu Arg Ala Phe Ala Ile Tyr Thr Ser Ile Ser Ile Phe
 530 535 540
 Met Asn Thr Ala Ile Pro Ile Ala Ala Val Leu Ile Thr Phe Val Gly
 545 550 555 560
 His Val Ser Phe Phe Lys Glu Ala Asp Phe Ser Pro Ser Val Ala Phe
 565 570 575
 Ala Ser Leu Ser Leu Phe His Ile Leu Val Thr Pro Leu Phe Leu Leu
 580 585 590
 Ser Ser Val Val Arg Ser Thr Val Lys Ala Leu Val Ser Val Gln Lys
 595 600 605
 Leu Ser Glu Phe Leu Ser Ser Ala Glu Ile Arg Glu Glu Gln Cys Ala
 610 615 620
 Pro His Glu Pro Thr Pro Gln Gly Pro Ala Ser Lys Tyr Gln Ala Val
 625 630 635 640
 Pro Leu Arg Val Val Asn Arg Lys Arg Pro Ala Arg Glu Asp Cys Arg
 645 650 655
 Gly Leu Thr Gly Pro Leu Gln Ser Leu Val Pro Ser Ala Asp Gly Asp
 660 665 670
 Ala Asp Asn Cys Cys Val Gln Ile Met Gly Gly Tyr Phe Thr Trp Thr
 675 680 685
 Pro Asp Gly Ile Pro Thr Leu Ser Asn Ile Thr Ile Arg Ile Pro Arg
 690 695 700
 Gly Gln Leu Thr Met Ile Val Gly Gln Val Gly Cys Gly Lys Ser Ser
 705 710 715 720
 Leu Leu Leu Ala Ala Leu Gly Glu Met Gln Lys Val Ser Gly Ala Val
 725 730 735
 Phe Trp Ser Ser Met Pro Phe Leu Pro Cys Cys Ser Pro Glu Arg Glu
 740 745 750
 Thr Ala Thr Asp Leu Asp Ile Arg Lys Arg Gly Pro Val Ala Tyr Ala
 755 760 765
 Ser Gln Lys Pro Trp Leu Leu Asn Ala Thr Val Glu Glu Asn Ile Ile
 770 775 780
 Phe Glu Ser Pro Phe Asn Lys Gln Arg Tyr Lys Met Val Ile Glu Ala
 785 790 795 800
 Cys Ser Leu Gln Pro Asp Ile Asp Ile Leu Pro His Gly Asp Gln Thr
 805 810 815
 Gln Ile Gly Glu Arg Gly Ile Asn Leu Ser Gly Gly Gln Arg Gln Arg
 820 825 830
 Ile Ser Val Ala Arg Ala Leu Tyr Gln His Ala Asn Val Val Phe Leu
 835 840 845
 Asp Asp Pro Phe Ser Ala Leu Asp Ile His Leu Ser Asp His Leu Met

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850	855	860
Gln Ala Gly Ile Leu Glu	Leu Leu Arg Asp Asp	Lys Arg Thr Val Val
865	870	875
Leu Val Thr His Lys	Leu Gln Tyr Leu Pro	His Ala Asp Trp Ile Ile
885	890	895
Ala Met Lys Asp Gly	Thr Ile Gln Arg Glu	Gly Thr Leu Lys Asp Phe
900	905	910
Gln Arg Ser Glu Cys	Gln Leu Phe Glu	His Trp Lys Thr Leu Met Asn
915	920	925
Arg Gln Asp Gln Glu	Leu Glu Lys Glu	Thr Val Thr Glu Arg Lys Ala
930	935	940
Thr Glu Pro Pro Gln	Gly Leu Ser Arg	Ala Met Ser Ser Arg Asp Gly
945	950	955
Leu Leu Gln Asp Glu	Gl Glu Glu Glu	Glu Ala Ala Glu Ser Glu
965	970	975
Glu Asp Asp Asn	Leu Ser Ser Met	Leu His Gln Arg Ala Glu Ile Pro
980	985	990
Trp Arg Ala Cys Ala	Lys Tyr Leu Ser	Ser Ala Gly Ile Leu Leu
995	1000	1005
Ser Leu Leu Val Phe	Ser Gln Leu Leu Lys	His Met Val Leu Val Ala
1010	1015	1020
Ile Asp Tyr Trp Leu	Ala Lys Trp Thr Asp	Ser Ala Leu Thr Leu Thr
1025	1030	1035
Pro Ala Ala Arg Asn	Cys Ser Leu Ser	Gln Glu Cys Thr Leu Asp Gln
1045	1050	1055
Thr Val Tyr Ala Met	Val Phe Thr Val	Leu Cys Ser Leu Gly Ile Val
1060	1065	1070
Leu Cys Leu Val Thr	Ser Val Thr Val	Glu Trp Thr Gly Leu Lys Val
1075	1080	1085
Ala Lys Arg Leu His	Arg Ser Leu Leu Asn	Arg Ile Ile Leu Ala Pro
1090	1095	1100
Met Arg Phe Phe Glu	Thr Thr Pro Leu Gly	Ser Ile Leu Asn Arg Phe
1105	1110	1115
Ser Ser Asp Cys Asn	Thr Ile Asp Gln	His Ile Pro Ser Thr Leu Glu
1125	1130	1135
Cys Leu Ser Arg	Ser Thr Leu Leu	Cys Val Ser Ala Ala Val Ile
1140	1145	1150
Ser Tyr Val Thr Pro	Val Phe Leu Val	Ala Leu Leu Pro Leu Ala Ile
1155	1160	1165
Val Cys Tyr Phe Ile	Gln Lys Tyr Phe	Arg Val Ala Ser Arg Asp Leu
1170	1175	1180
Gln Gln Leu Asp Asp	Thr Thr Gln Leu Pro	Leu Leu Ser His Phe Ala
1185	1190	1195
Glu Thr Val Glu	Gly Leu Thr Thr	Ile Arg Ala Phe Arg Tyr Glu Ala
1205	1210	1215
Arg Phe Gln Gln	Lys Leu Leu Glu	Tyr Thr Asp Ser Asn Asn Ile Ala
1220	1225	1230
Ser Leu Phe Leu Thr	Ala Ala Asn Arg	Trp Leu Glu Val Arg Met Ala
1235	1240	1245
Thr Pro Leu Pro Pro	Gln Glu Tyr Ile	Gly Ala Cys Val Val Leu Ile
1250	1255	1260
Ala Ala Val Thr Ser	Ile Ser Asn Ser	Leu His Arg Glu Leu Ser Ala
1265	1270	1275
Gly Leu Val Gly	Leu Gly Leu Thr	Tyr Ala Leu Met Val Ser Asn Tyr
1285	1290	1295
Leu Asn Trp Met Val	Arg Asn Leu Ala	Asp Met Glu Leu Gln Leu Gly
1300	1305	1310
Ala Val Lys Arg Ile	His Gly Leu Leu Lys	Thr Glu Ala Glu Ser Tyr
1315	1320	1325
Glu Gly Leu Leu Ala	Pro Ser Leu Ile	Pro Lys Asn Trp Pro Asp Gln
1330	1335	1340
Gly Lys Ile Gln Ile	Gln Asn Leu Ser	Val Arg Tyr Asp Ser Ser Leu
1345	1350	1355
		1360

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Lys Pro Val Leu Lys His Val Asn Ala Leu Ile Ala Pro Gly Gln Lys
 1365 1370 1375
 Ile Gly Ile Cys Gly Arg Thr Gly Ser Gly Lys Ser Ser Phe Ser Leu
 1380 1385 1390
 Ala Phe Phe Arg Met Val Asp Thr Phe Glu Gly His Ile Ile Ile Asp
 1395 1400 1405
 Gly Ile Asp Ile Ala Lys Leu Pro Leu His Thr Leu Arg Ser Arg Leu
 1410 1415 1420
 Ser Ile Ile Leu Gln Asp Pro Val Leu Phe Ser Gly Thr Ile Arg Phe
 1425 1430 1435 1440
 Asn Leu Asp Pro Glu Arg Lys Cys Ser Asp Ser Thr Leu Trp Glu Ala
 1445 1450 1455
 Leu Glu Ile Ala Gln Leu Lys Leu Val Val Lys Ala Leu Pro Gly Gly
 1460 1465 1470
 Leu Asp Ala Ile Ile Thr Glu Gly Glu Asn Phe Ser Gln Gly Gln
 1475 1480 1485
 Arg Gln Leu Phe Cys Leu Ala Arg Ala Phe Val Arg Lys Thr Ser Ile
 1490 1495 1500
 Phe Ile Met Asp Glu Ala Thr Ala Ser Ile Asp Met Ala Thr Glu Asn
 1505 1510 1515 1520
 Ile Leu Gln Lys Val Val Met Thr Ala Phe Ala Asp Arg Thr Val Val
 1525 1530 1535
 Thr Ile Ala His Arg Val His Thr Ile Leu Ser Ala Asp Leu Val Ile
 1540 1545 1550
 Val Leu Lys Arg Gly Ala Ile Leu Glu Phe Asp Lys Pro Glu Lys Leu
 1555 1560 1565
 Leu Ser Arg Lys Asp Ser Val Phe Ala Ser Phe Val Arg Ala Asp Lys
 1570 1575 1580

<210> 58

<211> 274

<212> PRT

<213> Homo sapiens

<400> 58

Met Pro Arg Asn Leu Leu Tyr Ser Leu Leu Ser Ser His Leu Ser Pro
 1 5 10 15
 His Phe Ser Thr Ser Val Thr Ser Ala Lys Val Ala Val Asn Gly Val
 20 25 30
 Gln Leu His Tyr Gln Gln Thr Gly Glu Gly Asp His Ala Val Leu Leu
 35 40 45
 Leu Pro Gly Met Leu Gly Ser Gly Glu Thr Asp Phe Gly Pro Gln Leu
 50 55 60
 Lys Asn Leu Asn Lys Lys Leu Phe Thr Val Val Ala Trp Asp Pro Arg
 65 70 75 80
 Gly Tyr Gly His Ser Arg Pro Pro Asp Arg Asp Phe Pro Ala Asp Phe
 85 90 95
 Phe Glu Arg Asp Ala Lys Asp Ala Val Asp Leu Met Lys Ala Leu Lys
 100 105 110
 Phe Lys Lys Val Ser Leu Leu Gly Trp Ser Asp Gly Gly Ile Thr Ala
 115 120 125
 Leu Ile Ala Ala Ala Lys Tyr Pro Ser Tyr Ile His Lys Met Val Ile
 130 135 140
 Trp Gly Ala Asn Ala Tyr Val Thr Asp Glu Asp Ser Met Ile Tyr Glu
 145 150 155 160
 Gly Ile Arg Asp Val Ser Lys Trp Ser Gly Arg Thr Arg Lys Pro Leu
 165 170 175
 Glu Ala Leu Tyr Gly Tyr Asp Tyr Phe Ala Arg Thr Cys Glu Lys Trp
 180 185 190
 Val Asp Gly Ile Arg Gln Phe Lys His Leu Pro Asp Gly Asn Ile Cys
 195 200 205
 Arg His Leu Leu Pro Arg Val Gln Cys Pro Ala Leu Ile Val His Gly
 210 215 220

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Glu Lys Asp Pro Leu Val Pro Arg Phe His Ala Asp Phe Ile His Lys
 225 230 235 240
 His Val Lys Gly Ser Arg Leu His Leu Met Pro Glu Gly Lys His Asn
 245 250 255
 Leu His Leu Arg Phe Ala Asp Glu Phe Asn Lys Leu Ala Glu Asp Phe
 260 265 270
 Leu Gln

<210> 59
 <211> 1247
 <212> PRT
 <213> Homo sapiens

<400> 59
 Met Met Arg Glu Trp Val Leu Leu Met Ser Val Leu Leu Cys Gly Leu
 1 5 10 15
 Ala Gly Pro Thr His Leu Phe Gln Pro Ser Leu Val Leu Asp Met Ala
 20 25 30
 Lys Val Leu Leu Asp Asn Tyr Cys Phe Pro Glu Asn Leu Leu Gly Met
 35 40 45
 Gln Glu Ala Ile Gln Gln Ala Ile Lys Ser His Glu Ile Leu Ser Ile
 50 55 60
 Ser Asp Pro Gln Thr Leu Ala Ser Val Leu Thr Ala Gly Val Gln Ser
 65 70 75 80
 Ser Leu Asn Asp Pro Arg Leu Val Ile Ser Tyr Glu Pro Ser Thr Pro
 85 90 95
 Glu Pro Pro Pro Gln Val Pro Ala Leu Thr Ser Leu Ser Glu Glu Glu
 100 105 110
 Leu Leu Ala Trp Leu Gln Arg Gly Leu Arg His Glu Val Leu Glu Gly
 115 120 125
 Asn Val Gly Tyr Leu Arg Val Asp Ser Val Pro Gly Gln Glu Val Leu
 130 135 140
 Ser Met Met Gly Glu Phe Leu Val Ala His Val Trp Gly Asn Leu Met
 145 150 155 160
 Gly Thr Ser Ala Leu Val Leu Asp Leu Arg His Cys Thr Gly Gln
 165 170 175
 Val Ser Gly Ile Pro Tyr Ile Ile Ser Tyr Leu His Pro Gly Asn Thr
 180 185 190
 Ile Leu His Val Asp Thr Ile Tyr Asn Arg Pro Ser Asn Thr Thr Thr
 195 200 205
 Glu Ile Trp Thr Leu Pro Gln Val Leu Gly Glu Arg Tyr Gly Ala Asp
 210 215 220
 Lys Asp Val Val Val Leu Thr Ser Ser Gln Thr Arg Gly Val Ala Glu
 225 230 235 240
 Asp Ile Ala His Ile Leu Lys Gln Met Arg Arg Ala Ile Val Val Gly
 245 250 255
 Glu Arg Thr Gly Gly Ala Leu Asp Leu Arg Lys Leu Arg Ile Gly
 260 265 270
 Glu Ser Asp Phe Phe Phe Thr Val Pro Val Ser Arg Ser Leu Gly Pro
 275 280 285
 Leu Gly Gly Gly Ser Gln Thr Trp Glu Gly Ser Gly Val Leu Pro Cys
 290 295 300
 Val Gly Thr Pro Ala Glu Gln Ala Leu Glu Lys Ala Leu Ala Ile Leu
 305 310 315 320
 Thr Leu Arg Ser Ala Leu Pro Gly Val Val His Cys Leu Gln Glu Val
 325 330 335
 Leu Lys Asp Tyr Tyr Thr Leu Val Asp Arg Val Pro Thr Leu Leu Gln
 340 345 350
 His Leu Ala Ser Met Asp Phe Ser Thr Val Val Ser Glu Glu Asp Leu
 355 360 365
 Val Thr Lys Leu Asn Ala Gly Leu Gln Ala Ala Ser Glu Asp Pro Arg
 370 375 380

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Leu Leu Val Arg Ala Ile Gly Pro Thr Glu Thr Pro Ser Trp Pro Ala
 385 390 395 400
 Pro Asp Ala Ala Ala Glu Asp Ser Pro Gly Val Ala Pro Glu Leu Pro
 405 410 415
 Glu Asp Glu Ala Ile Arg Gln Ala Leu Val Asp Ser Val Phe Gln Val
 420 425 430
 Ser Val Leu Pro Gly Asn Val Gly Tyr Leu Arg Phe Asp Ser Phe Ala
 435 440 445
 Asp Ala Ser Val Leu Gly Val Leu Ala Pro Tyr Val Leu Arg Gln Val
 450 455 460
 Trp Glu Pro Leu Gln Asp Thr Glu His Leu Ile Met Asp Leu Arg His
 465 470 475 480
 Asn Pro Gly Gly Pro Ser Ser Ala Val Pro Leu Leu Leu Ser Tyr Phe
 485 490 495
 Gln Gly Pro Glu Ala Gly Pro Val His Leu Phe Thr Thr Tyr Asp Arg
 500 505 510
 Arg Thr Asn Ile Thr Gln Glu His Phe Ser His Met Glu Leu Pro Gly
 515 520 525
 Pro Arg Tyr Ser Thr Gln Arg Gly Val Tyr Leu Leu Thr Ser His Arg
 530 535 540
 Thr Ala Thr Ala Ala Glu Glu Phe Ala Phe Leu Met Gln Ser Leu Gly
 545 550 555 560
 Trp Ala Thr Leu Val Gly Glu Ile Thr Ala Gly Asn Leu Leu His Thr
 565 570 575
 Arg Thr Val Pro Leu Leu Asp Thr Pro Glu Gly Ser Leu Ala Leu Thr
 580 585 590
 Val Pro Val Leu Thr Phe Ile Asp Asn His Gly Glu Ala Trp Leu Gly
 595 600 605
 Gly Gly Val Val Pro Asp Ala Ile Val Leu Ala Glu Glu Ala Leu Asp
 610 615 620
 Lys Ala Gln Glu Val Leu Glu Phe His Gln Ser Leu Gly Ala Leu Val
 625 630 635 640
 Glu Gly Thr Gly His Leu Leu Glu Ala His Tyr Ala Arg Pro Glu Val
 645 650 655
 Val Gly Gln Thr Ser Ala Leu Leu Arg Ala Lys Leu Ala Gln Gly Ala
 660 665 670
 Tyr Arg Thr Ala Val Asp Leu Glu Ser Leu Ala Ser Gln Leu Thr Ala
 675 680 685
 Asp Leu Gln Glu Val Ser Gly Asp His Arg Leu Leu Val Phe His Ser
 690 695 700
 Pro Gly Glu Leu Val Val Glu Glu Ala Pro Pro Pro Pro Ala Val
 705 710 715 720
 Pro Ser Pro Glu Glu Leu Thr Tyr Leu Ile Glu Ala Leu Phe Lys Thr
 725 730 735
 Glu Val Leu Pro Gly Gln Leu Gly Tyr Leu Arg Phe Asp Ala Met Ala
 740 745 750
 Glu Leu Glu Thr Val Lys Ala Val Gly Pro Gln Leu Val Arg Leu Val
 755 760 765
 Trp Gln Gln Leu Val Asp Thr Ala Ala Leu Val Ile Asp Leu Arg Tyr
 770 775 780
 Asn Pro Gly Ser Tyr Ser Thr Ala Ile Pro Leu Leu Cys Ser Tyr Phe
 785 790 795 800
 Phe Glu Ala Glu Pro Arg Gln His Leu Tyr Ser Val Phe Asp Arg Ala
 805 810 815
 Thr Ser Lys Val Thr Glu Val Trp Thr Leu Pro Gln Val Ala Gly Gln
 820 825 830
 Arg Tyr Gly Ser His Lys Asp Leu Tyr Ile Leu Met Ser His Thr Ser
 835 840 845
 Gly Ser Ala Ala Glu Ala Phe Ala His Thr Met Gln Asp Leu Gln Arg
 850 855 860
 Ala Thr Val Ile Gly Glu Pro Thr Ala Gly Gly Ala Leu Ser Val Gly
 865 870 875 880
 Ile Tyr Gln Val Gly Ser Ser Pro Leu Tyr Ala Ser Met Pro Thr Gln

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	885	890	895
Met Ala Met Ser Ala Thr Thr Gly Lys Ala Trp Asp Leu Ala Gly Val	900	905	910
Glu Pro Asp Ile Thr Val Pro Met Ser Glu Ala Leu Ser Ile Ala Gln	915	920	925
Asp Ile Val Ala Leu Arg Ala Lys Val Pro Thr Val Leu Gln Thr Ala	930	935	940
Gly Lys Leu Val Ala Asp Asn Tyr Ala Ser Ala Glu Leu Gly Ala Lys	945	950	955
Met Ala Thr Lys Leu Ser Gly Leu Gln Ser Arg Tyr Ser Arg Val Thr	965	970	975
Ser Glu Val Ala Leu Ala Glu Ile Leu Gly Ala Asp Leu Gln Met Leu	980	985	990
Ser Gly Asp Pro His Leu Lys Ala Ala His Ile Pro Glu Asn Ala Lys	995	1000	1005
Asp Arg Ile Pro Gly Ile Val Pro Met Gln Ile Pro Ser Pro Glu Val	1010	1015	1020
Phe Glu Glu Leu Ile Lys Phe Ser Phe His Thr Asn Val Leu Glu Asp	1025	1030	1035
Asn Ile Gly Tyr Leu Arg Phe Asp Met Phe Gly Asp Gly Glu Leu Leu	1045	1050	1055
Thr Gln Val Ser Arg Leu Leu Val Glu His Ile Trp Lys Lys Ile Met	1060	1065	1070
His Thr Asp Ala Met Ile Ile Asp Met Arg Phe Asn Ile Gly Gly Pro	1075	1080	1085
Thr Ser Ser Ile Pro Ile Leu Cys Ser Tyr Phe Phe Asp Glu Gly Pro	1090	1095	1100
Pro Val Leu Leu Asp Lys Ile Tyr Ser Arg Pro Asp Asp Ser Val Ser	1105	1110	1115
Glu Leu Trp Thr His Ala Gln Val Val Gly Glu Arg Tyr Gly Ser Lys	1125	1130	1135
Lys Ser Met Val Ile Leu Thr Ser Ser Val Thr Ala Gly Thr Ala Glu	1140	1145	1150
Glu Phe Thr Tyr Ile Met Lys Arg Leu Gly Arg Ala Leu Val Ile Gly	1155	1160	1165
Glu Val Thr Ser Gly Gly Cys Gln Pro Pro Gln Thr Tyr His Val Asp	1170	1175	1180
Asp Thr Asn Leu Tyr Leu Thr Ile Pro Thr Ala Arg Ser Val Gly Ala	1185	1190	1195
Ser Asp Gly Ser Ser Trp Glu Gly Val Gly Val Thr Pro His Val Val	1205	1210	1215
Val Pro Ala Glu Glu Ala Leu Ala Arg Ala Lys Glu Met Leu Gln His	1220	1225	1230
Asn Gln Leu Arg Val Lys Arg Ser Pro Gly Leu Gln Asp His Leu	1235	1240	1245

<210> 60

<211> 300

<212> PRT

<213> Homo sapiens

<400> 60

Met Ala Glu Val Asn Ile Ile Tyr Val Thr Val Phe Ile Leu Lys Gly	1	5	10	15
Ile Thr Asn Arg Pro Glu Leu Gln Ala Pro Cys Phe Gly Val Phe Leu	20	25	30	
Val Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Gly Leu Ile Thr Leu	35	40	45	
Ile Lys Ile Asp Thr Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Ser	50	55	60	
His Leu Ala Phe Val Asp Leu Cys Tyr Ser Ser Ala Ile Thr Pro Lys	65	70	75	80
Met Met Val Asn Phe Val Val Glu Arg Asn Thr Ile Pro Phe His Ala				

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	85	90	95
Cys Ala Thr Gln Leu Gly Cys Phe Leu Thr Phe Met Ile Thr Glu Cys			
100 105 110			
Phe Leu Leu Ala Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Ser			
115 120 125			
Pro Leu His Tyr Ser Thr Leu Met Ser Arg Arg Val Cys Ile Gln Leu			
130 135 140			
Val Ala Val Pro Tyr Ile Tyr Ser Phe Leu Val Ala Leu Phe His Thr			
145 150 155 160			
Val Ile Thr Phe Arg Leu Thr Tyr Cys Gly Pro Asn Leu Ile Asn His			
165 170 175			
Phe Tyr Cys Asp Asp Leu Pro Phe Leu Ala Leu Ser Cys Ser Asp Thr			
180 185 190			
His Met Lys Glu Ile Leu Ile Phe Ala Phe Ala Gly Phe Asp Met Ile			
195 200 205			
Ser Ser Ser Ile Val Leu Thr Ser Tyr Ile Phe Ile Ile Ala Ala			
210 215 220			
Ile Leu Arg Ile Arg Ser Thr Gln Gly Gln His Lys Ala Ile Ser Thr			
225 230 235 240			
Cys Gly Ser His Met Val Thr Val Thr Ile Phe Tyr Gly Thr Leu Ile			
245 250 255			
Phe Met Tyr Leu Gln Pro Lys Ser Asn His Ser Leu Asp Thr Asp Lys			
260 265 270			
Met Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu			
275 280 285			
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala			
290 295 300			

<210> 61

<211> 418

<212> PRT

<213> Homo sapiens

<400> 61

Met Ile Gln Leu Thr Ala Thr Pro Val Ser Ala Leu Val Asp Glu Pro			
1 5 10 15			
Val His Ile Arg Ala Thr Gly Leu Ile Pro Phe Gln Met Val Ser Phe			
20 25 30			
Gln Ala Ser Leu Glu Asp Glu Asn Gly Asp Met Phe Tyr Ser Gln Ala			
35 40 45			
His Tyr Arg Ala Asn Glu Phe Gly Glu Val Asp Leu Asn His Ala Ser			
50 55 60			
Ser Leu Gly Gly Asp Tyr Met Gly Val His Pro Met Gly Leu Phe Trp			
65 70 75 80			
Ser Leu Lys Pro Glu Lys Leu Leu Thr Arg Leu Leu Lys Arg Asp Val			
85 90 95			
Met Asn Arg Pro Phe Gln Val Gln Val Lys Leu Tyr Asp Leu Glu Leu			
100 105 110			
Ile Val Asn Asn Lys Val Ala Ser Ala Pro Lys Ala Ser Leu Thr Leu			
115 120 125			
Glu Arg Trp Tyr Val Ala Pro Gly Val Thr Arg Ile Lys Val Arg Glu			
130 135 140			
Gly Arg Leu Arg Gly Ala Leu Phe Leu Pro Pro Gly Glu Gly Leu Phe			
145 150 155 160			
Pro Gly Val Ile Asp Leu Phe Gly Gly Leu Gly Gly Leu Leu Glu Phe			
165 170 175			
Arg Ala Ser Leu Leu Ala Ser Arg Gly Phe Ala Ser Leu Ala Leu Ala			
180 185 190			
Tyr His Asn Tyr Glu Asp Leu Pro Arg Lys Pro Glu Val Thr Asp Leu			
195 200 205			
Glu Tyr Phe Glu Glu Ala Ala Asn Phe Leu Leu Arg His Pro Lys Val			
210 215 220			
Phe Gly Ser Gly Val Gly Val Val Ser Val Cys Gln Gly Val Gln Ile			

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225	230	235	240												
Gly	Leu	Ser	Met	Ala	Ile	Tyr	Leu	Lys	Gln	Val	Thr	Ala	Thr	Val	Leu
245	250	255													
Ile	Asn	Gly	Thr	Asn	Phe	Pro	Phe	Gly	Ile	Pro	Gln	Val	Tyr	His	Gly
260	265	270													
Gln	Ile	His	Gln	Pro	Leu	Pro	His	Ser	Ala	Gln	Leu	Ile	Ser	Thr	Asn
275	280	285													
Ala	Leu	Gly	Leu	Leu	Glu	Leu	Tyr	Arg	Thr	Phe	Glu	Thr	Thr	Gln	Val
290	295	300													
Gly	Ala	Ser	Gln	Tyr	Leu	Phe	Pro	Ile	Glu	Glu	Ala	Gln	Gly	Gln	Phe
305	310	315													
Leu	Phe	Ile	Val	Gly	Glu	Gly	Asp	Lys	Thr	Ile	Asn	Ser	Lys	Ala	His
325	330	335													
Ala	Glu	Gln	Ala	Ile	Gly	Gln	Leu	Lys	Arg	His	Gly	Lys	Asn	Asn	Trp
340	345	350													
Thr	Leu	Leu	Ser	Tyr	Pro	Gly	Ala	Gly	His	Leu	Ile	Glu	Pro	Pro	Tyr
355	360	365													
Ser	Pro	Leu	Cys	Cys	Ala	Ser	Thr	His	Asp	Leu	Arg	Leu	His	Trp	
370	375	380													
Gly	Gly	Glu	Val	Ile	Pro	His	Ala	Ala	Ala	Gln	Glu	His	Ala	Trp	Lys
385	390	395													
Glu	Ile	Gln	Arg	Phe	Leu	Arg	Lys	His	Leu	Ile	Pro	Asp	Val	Thr	Ser
405	410	415													
Gln	Leu														

<210> 62
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 62															
Ile	Ser	Pro	Gln	Ser	Arg	Asp	Ala	Lys	Pro	Asn	Pro	Glu	Glu	Pro	Ile
1															
Asp	Glu	Asp	Glu	Asp	Ile	Gln	Thr	Glu	Arg	Ile	Arg	Thr	Ala	Thr	Ala
20															
Leu	Thr	Thr	Ser	Ile	Leu	Asp	Glu	Val	Glu	Leu	Lys	Gly	Cys	Ser	Ser
35															
Val	Leu	Gly	His	Leu	Gly	Tyr	Cys	Pro	Gln	Glu	Asn	Val	Leu	Trp	Pro
50															
Met	Leu	Thr	Leu	Arg	Glu	His	Leu	Glu	Val	Tyr	Ala	Ala	Val	Lys	Gly
65															
Leu	Arg	Lys	Ala	Asp	Ala	Arg	Leu	Ala	Ile	Ala	Arg	Leu	Val	Ser	Ala
85															
Phe	Lys	Leu	His	Glu	Gln	Leu	Asn	Val	Pro	Val	Gln	Lys	Leu	Thr	Ala
100															
Gly	Ile	Thr	Arg	Lys	Leu	Cys	Phe	Val	Leu	Ser	Leu	Leu	Gly	Asn	Ser
115															
Pro	Val	Leu	Leu	Leu	Asp	Glu	Pro	Ser	Thr	Gly	Ile	Asp	Pro	Thr	Gly
130															
Gln	Gln	Gln	Met	Trp	Gln	Ala	Ile	Gln	Ala	Val	Val	Lys	Asn	Thr	Glu
145															
Arg	Gly	Val	Leu	Leu	Thr	Thr	His	Asn	Leu	Ala	Glu	Ala	Glu	Ala	Leu
165															
Cys	Asp	Arg	Val	Ala	Ile	Met	Val	Ser	Gly	Arg	Leu	Arg	Cys	Ile	Gly
180															
Ser	Ile	Gln	His	Leu	Lys	Asn	Lys	Leu	Gly	Lys	Asp	Tyr	Ile	Leu	Glu
195															
Leu	Lys	Val	Lys	Glu	Thr	Ser	Gln	Val	Thr	Leu	Val	His	Thr	Glu	Ile
210															
Leu	Lys	Leu	Phe	Pro	Gln	Ala	Ala	Gly	Gln	Glu	Arg	Tyr	Ser	Ser	Leu
225															
Leu	Thr	Tyr	Lys	Leu	Pro	Val	Ala	Asp	Val	Tyr	Pro	Leu	Ser	Gln	Thr
230															

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245

250

255

Phe His Lys Leu Glu Ala
260

<210> 63
<211> 1303
<212> PRT
<213> Homo sapiens

<400> 63

Trp Asn Thr Ser Asn Pro Asp Phe Thr Lys Cys Phe Gln Asn Thr Val
1 5 10 15
Leu Val Trp Val Pro Cys Phe Tyr Leu Trp Ala Cys Phe Pro Phe Tyr
20 25 30
Phe Leu Tyr Leu Ser Arg His Asp Arg Gly Tyr Ile Gln Met Thr Pro
35 40 45
Leu Asn Lys Thr Lys Thr Ala Leu Gly Phe Leu Leu Trp Ile Val Cys
50 55 60
Trp Ala Asp Leu Phe Tyr Ser Phe Trp Glu Arg Ser Arg Gly Ile Phe
65 70 75 80
Leu Ala Pro Val Phe Leu Val Ser Pro Thr Leu Leu Gly Ile Thr Met
85 90 95
Leu Leu Ala Thr Phe Leu Ile Gln Leu Glu Arg Arg Lys Gly Val Gln
100 105 110
Ser Ser Gly Ile Met Leu Thr Phe Trp Leu Val Ala Leu Val Cys Ala
115 120 125
Leu Ala Ile Leu Arg Ser Lys Ile Met Thr Ala Leu Lys Glu Val Asp
130 135 140
Leu Phe Arg Asp Ile Thr Phe Tyr Val Tyr Phe Ser Leu Leu Leu Ile
145 150 155 160
Gln Leu Val Leu Ser Cys Phe Ser Asp Arg Ser Pro Leu Phe Ser Glu
165 170 175
Thr Ile His Asp Pro Asn Pro Cys Pro Glu Ser Ser Ala Ser Phe Leu
180 185 190
Ser Arg Ile Thr Phe Trp Trp Ile Thr Gly Leu Ile Val Arg Gly Tyr
195 200 205
Arg Gln Pro Leu Glu Gly Ser Asp Leu Trp Ser Leu Asn Lys Glu Asp
210 215 220
Thr Ser Glu Gln Val Val Pro Val Leu Val Lys Asn Trp Lys Lys Glu
225 230 235 240
Cys Ala Lys Thr Arg Asn Ser Ser Gly Ser Gly Glu Ser Cys Ser Ala
245 250 255
Asn Thr Glu Ala Leu Phe Pro Ala Pro Thr Cys His Lys Ser Phe Gln
260 265 270
Ala Leu Ser Leu Leu Cys Arg Leu Leu Ile Lys Phe Val Asn Asp
275 280 285
Thr Lys Ala Pro Asp Trp Gln Gly Tyr Phe Tyr Thr Val Leu Leu Phe
290 295 300
Val Thr Ala Cys Leu Gln Thr Leu Val Leu His Gln Tyr Phe His Ile
305 310 315 320
Cys Phe Val Ser Gly Met Arg Ile Lys Thr Ala Val Ile Gly Ala Val
325 330 335
Tyr Arg Lys Ala Leu Val Ile Thr Asn Ser Ala Arg Lys Ser Ser Thr
340 345 350
Val Gly Glu Ile Val Asn Leu Met Ser Val Asp Ala Gln Arg Phe Met
355 360 365
Asp Leu Ala Thr Tyr Ile Asn Met Ile Trp Ser Ala Pro Leu Gln Val
370 375 380
Ile Leu Ala Leu Tyr Leu Leu Trp Leu Val Val Ala Pro Asp Val Leu
385 390 395 400
Thr Ala Val Ser Ser Lys Val Ala His Met Lys Ser Lys Asp Asn Arg
405 410 415
Ile Lys Leu Met Asn Glu Ile Leu Asn Gly Ile Lys Val Leu Lys Leu

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Tyr	Ala	Trp	Glu	Leu	Ala	Phe	Lys	Asp	Lys	Val	Leu	Ala	Ile	Arg	Gln
420			425				430								
435			440				445								
Glu	Glu	Leu	Lys	Val	Leu	Lys	Lys	Ser	Ala	Tyr	Leu	Ser	Ala	Val	Gly
450			455				460								
Thr	Phe	Thr	Trp	Val	Cys	Thr	Pro	Phe	Leu	Val	Ala	Leu	Cys	Thr	Phe
465			470				475								480
Ala	Val	Tyr	Val	Thr	Ile	Asp	Glu	Asn	Asn	Ile	Leu	Asp	Ala	Gln	Thr
							485		490					495	
Ala	Phe	Val	Ser	Leu	Ala	Leu	Phe	Asn	Ile	Leu	Arg	Phe	Pro	Leu	Asn
							500		505					510	
Ile	Leu	Pro	Met	Val	Ile	Ser	Ser	Ile	Val	Gln	Val	Gln	Gly	Glu	Ala
							515		520				525		
Gly	Ala	Thr	Ser	Glu	Arg	Gly	Pro	Trp	Gly	Ser	Arg	Pro	Arg	Lys	His
							530		535				540		
Gly	Thr	Arg	Gln	Ala	Ser	Phe	Ser	Val	Ala	Glu	Pro	Gly	Val	Leu	Cys
							545		550				555		560
Arg	Phe	Ser	Ile	Thr	Phe	Ser	Ile	Pro	Glu	Gly	Ala	Leu	Val	Ala	Val
							565		570				575		
Val	Gly	Gln	Val	Gly	Cys	Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Leu	Leu
							580		585				590		
Ala	Glu	Met	Asp	Lys	Val	Glu	Gly	His	Val	Ala	Ile	Lys	Gly	Ser	Val
							595		600				605		
Ala	Tyr	Val	Pro	Gln	Gln	Ala	Trp	Ile	Gln	Asn	Asp	Ser	Leu	Arg	Glu
							610		615				620		
Asn	Ile	Leu	Phe	Gly	Cys	Gln	Leu	Glu	Glu	Pro	Tyr	Tyr	Arg	Ser	Val
							625		630				635		640
Ile	Gln	Ala	Cys	Ala	Leu	Leu	Pro	Asp	Leu	Glu	Ile	Leu	Pro	Ser	Gly
							645		650				655		
Asp	Arg	Thr	Glu	Ile	Gly	Glu	Lys	Gly	Val	Asn	Leu	Ser	Gly	Gly	Gln
							660		665				670		
Lys	Gln	Arg	Val	Ser	Leu	Ala	Arg	Ala	Val	Tyr	Ser	Asn	Ala	Asp	Ile
							675		680				685		
Tyr	Leu	Phe	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	His	Val	Gly	Lys
							690		695				700		
His	Ile	Phe	Glu	Asn	Val	Ile	Gly	Pro	Lys	Gly	Met	Leu	Lys	Asn	Lys
							705		710				715		720
Ser	Cys	Leu	Ile	Ser	Cys	Asp	Leu	Gln	Val	Lys	Leu	Ser	Val	Tyr	Trp
							725		730				735		
Asp	Tyr	Met	Lys	Ala	Ile	Gly	Leu	Phe	Ile	Ser	Phe	Leu	Ser	Ile	Phe
							740		745				750		
Leu	Phe	Met	Cys	Asn	His	Val	Ser	Ala	Leu	Ala	Ser	Asn	Tyr	Trp	Leu
							755		760				765		
Ser	Leu	Trp	Thr	Asp	Asp	Pro	Ile	Val	Asn	Gly	Thr	Gln	Glu	His	Thr
							770		775				780		
Lys	Val	Arg	Leu	Ser	Val	Tyr	Gly	Ala	Leu	Gly	Ile	Ser	Gln	Gly	Ile
							785		790				795		800
Ala	Val	Phe	Gly	Tyr	Ser	Met	Ala	Val	Ser	Ile	Gly	Gly	Ile	Leu	Ala
							805		810				815		
Ser	Arg	Cys	Leu	His	Val	Asp	Leu	Leu	His	Ser	Ile	Leu	Arg	Ser	Pro
							820		825				830		
Met	Ser	Phe	Phe	Glu	Arg	Thr	Pro	Ser	Gly	Asn	Leu	Val	Asn	Arg	Phe
							835		840				845		
Ser	Lys	Glu	Leu	Asp	Thr	Val	Asp	Ser	Met	Ile	Pro	Glu	Val	Ile	Lys
							850		855				860		
Met	Phe	Met	Gly	Ser	Leu	Phe	Asn	Val	Ile	Gly	Ala	Cys	Ile	Val	Ile
							865		870				875		880
Leu	Leu	Ala	Thr	Pro	Ile	Ala	Ala	Ile	Ile	Ile	Pro	Pro	Leu	Gly	Leu
							885		890				895		
Ile	Tyr	Phe	Phe	Val	Gln	Arg	Phe	Tyr	Val	Ala	Ser	Ser	Arg	Gln	Leu
							900		905				910		
Lys	Arg	Leu	Glu	Ser	Val	Ser	Arg	Ser	Pro	Val	Tyr	Ser	His	Phe	Asn
							915		920				925		

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Glu Thr Leu Leu Gly Val Ser Val Ile Arg Ala Phe Glu Glu Gln Glu
 930 935 940
 Arg Phe Ile His Gln Ser Asp Leu Lys Val Asp Glu Asn Gln Lys Ala
 945 950 955 960
 Tyr Tyr Pro Ser Ile Val Ala Asn Arg Trp Leu Ala Val Arg Leu Glu
 965 970 975
 Cys Val Gly Asn Cys Ile Val Leu Phe Ala Ala Leu Phe Ala Val Ile
 980 985 990
 Ser Arg His Ser Leu Ser Ala Gly Leu Val Gly Leu Ser Val Ser Tyr
 995 1000 1005
 Ser Leu Gln Val Thr Thr Tyr Leu Asn Trp Leu Val Arg Met Ser Ser
 1010 1015 1020
 Glu Met Glu Thr Asn Ile Val Ala Val Glu Arg Leu Lys Glu Tyr Ser
 1025 1030 1035 1040
 Glu Thr Glu Lys Glu Ala Pro Trp Gln Ile Gln Glu Thr Ala Pro Pro
 1045 1050 1055
 Ser Ser Trp Pro Gln Val Gly Arg Val Glu Phe Arg Asn Tyr Cys Leu
 1060 1065 1070
 Arg Tyr Arg Glu Asp Leu Asp Phe Val Leu Arg His Ile Asn Val Thr
 1075 1080 1085
 Ile Asn Gly Gly Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly
 1090 1095 1100
 Lys Ser Ser Leu Thr Leu Gly Leu Phe Arg Ile Asn Glu Ser Ala Glu
 1105 1110 1115 1120
 Gly Glu Ile Ile Ile Asp Gly Ile Asn Ile Ala Lys Ile Gly Leu His
 1125 1130 1135
 Asp Leu Arg Phe Lys Ile Thr Ile Ile Pro Gln Asp Pro Val Leu Phe
 1140 1145 1150
 Ser Gly Ser Leu Arg Met Asn Leu Asp Pro Phe Ser Gln Tyr Ser Asp
 1155 1160 1165
 Glu Glu Val Trp Thr Ser Leu Glu Leu Ala His Leu Lys Asp Phe Val
 1170 1175 1180
 Ser Ala Leu Pro Asp Lys Leu Asp His Glu Cys Ala Glu Gly Gly Glu
 1185 1190 1195 1200
 Asn Leu Ser Val Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Leu
 1205 1210 1215
 Leu Arg Lys Thr Lys Ile Leu Val Leu Asp Glu Ala Thr Ala Ala Val
 1220 1225 1230
 Asp Leu Glu Thr Asp Asp Leu Ile Gln Ser Thr Ile Arg Thr Gln Phe
 1235 1240 1245
 Glu Asp Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Met
 1250 1255 1260
 Asp Tyr Thr Arg Val Ile Val Leu Asp Lys Gly Glu Ile Gln Glu Tyr
 1265 1270 1275 1280
 Gly Ala Pro Ser Asp Leu Leu Gln Gln Arg Gly Leu Phe Tyr Ser Met
 1285 1290 1295
 Ala Lys Asp Ala Gly Leu Val
 1300

<210> 64
 <211> 736
 <212> PRT
 <213> Homo sapiens

<400> 64
 His Arg Leu Ile Gly His Ser Ser Ala Glu Cys Ile Leu Ser Gly Asn
 1 5 10 15
 Thr Ala His Trp Ser Thr Lys Pro Pro Ile Cys Gln Arg Ile Pro Cys
 20 25 30
 Gly Leu Pro Pro Thr Ile Ala Asn Gly Asp Phe Ile Ser Thr Asn Arg
 35 40 45
 Glu Asn Phe His Tyr Gly Ser Val Val Thr Tyr Arg Cys Asn Leu Gly
 50 55 60

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Ser Arg Gly Arg Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr
 65 70 75 80
 Cys Thr Ser Asn Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro
 85 90 95
 Gln Cys Ile Ile Pro Asn Lys Cys Thr Pro Pro Asn Val Glu Asn Gly
 100 105 110
 Ile Leu Val Ser Asp Asn Arg Ser Leu Phe Ser Leu Asn Glu Val Val
 115 120 125
 Glu Phe Arg Cys Gln Pro Gly Phe Val Met Lys Gly Pro Arg Arg Val
 130 135 140
 Lys Cys Gln Ala Leu Asn Lys Trp Glu Pro Glu Leu Pro Ser Cys Ser
 145 150 155 160
 Arg Val Cys Gln Pro Pro Pro Glu Ile Leu His Gly Glu His Thr Pro
 165 170 175
 Ser His Gln Asp Asn Phe Ser Pro Gly Gln Glu Val Phe Tyr Ser Cys
 180 185 190
 Glu Pro Gly Tyr Asp Leu Arg Gly Ala Ala Ser Leu His Cys Thr Pro
 195 200 205
 Gln Gly Asp Trp Ser Pro Glu Ala Pro Arg Cys Ala Val Lys Ser Cys
 210 215 220
 Asp Asp Phe Leu Gly Gln Leu Pro His Gly Arg Val Leu Phe Pro Leu
 225 230 235 240
 Asn Leu Gln Leu Gly Ala Lys Val Ser Phe Val Cys Asp Glu Gly Phe
 245 250 255
 Arg Leu Lys Gly Ser Ser Val Ser His Cys Val Leu Val Gly Met Arg
 260 265 270
 Ser Leu Trp Asn Asn Ser Val Pro Val Cys Glu His Ile Phe Cys Pro
 275 280 285
 Asn Pro Pro Ala Ile Leu Asn Gly Arg His Thr Gly Thr Pro Ser Gly
 290 295 300
 Asp Ile Pro Tyr Gly Lys Glu Ile Ser Tyr Thr Cys Asp Pro His Pro
 305 310 315 320
 Asp Arg Gly Met Thr Phe Asn Leu Ile Gly Glu Ser Thr Ile Arg Cys
 325 330 335
 Thr Ser Asp Pro His Gly Asn Gly Val Trp Ser Ser Pro Ala Pro Arg
 340 345 350
 Cys Glu Leu Ser Val Arg Ala Gly His Cys Lys Thr Pro Glu Gln Phe
 355 360 365
 Pro Phe Ala Ser Pro Thr Ile Pro Ile Asn Asp Phe Glu Phe Pro Val
 370 375 380
 Gly Thr Ser Leu Asn Tyr Glu Cys Arg Pro Gly Tyr Phe Gly Lys Met
 385 390 395 400
 Phe Ser Ile Ser Cys Leu Glu Asn Leu Val Trp Ser Ser Val Glu Asp
 405 410 415
 Asn Cys Arg Arg Lys Ser Cys Gly Pro Pro Pro Glu Pro Phe Asn Gly
 420 425 430
 Met Val His Ile Asn Thr Asp Thr Gln Phe Gly Ser Thr Val Asn Tyr
 435 440 445
 Ser Cys Asn Glu Gly Phe Arg Leu Ile Gly Ser Pro Ser Thr Thr Cys
 450 455 460
 Leu Val Ser Gly Asn Asn Val Thr Trp Asp Lys Lys Ala Pro Ile Cys
 465 470 475 480
 Glu Ile Ile Ser Cys Glu Pro Pro Pro Thr Ile Ser Asn Gly Asp Phe
 485 490 495
 Tyr Ser Asn Asn Arg Thr Ser Phe His Asn Gly Thr Val Val Thr Tyr
 500 505 510
 Gln Cys His Thr Gly Pro Asp Gly Glu Gln Leu Phe Glu Leu Val Gly
 515 520 525
 Glu Arg Ser Ile Tyr Cys Thr Ser Lys Asp Asp Gln Val Gly Val Trp
 530 535 540
 Ser Ser Pro Pro Pro Arg Cys Ile Ser Thr Asn Lys Cys Thr Ala Pro
 545 550 555 560
 Glu Val Glu Asn Ala Ile Arg Val Pro Gly Asn Arg Ser Phe Phe Thr

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	565	570	575
Leu Thr Glu Ile Ile Arg Phe Arg Cys Gln Pro Gly Phe Val Met Val	580	585	590
Gly Ser His Thr Val Gln Cys Gln Thr Asn Gly Arg Trp Gly Pro Lys	595	600	605
Leu Pro His Cys Ser Arg Val Cys Gln Pro Pro His Ile Leu His Gly	610	615	620
Glu His Thr Leu Ser His Gln Asp Asn Phe Ser Pro Gly Gln Glu Val	625	630	635
Phe Tyr Ser Cys Glu Pro Ser Tyr Asp Leu Arg Gly Ala Ala Ser Leu	645	650	655
His Cys Thr Pro Gln Gly Asp Trp Ser Pro Glu Ala Pro Arg Cys Thr	660	665	670
Val Lys Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro His Gly Arg Val	675	680	685
Leu Leu Pro Leu Asn Leu Gln Leu Gly Ala Lys Val Ser Phe Val Cys	690	695	700
Asp Glu Gly Phe Arg Leu Lys Gly Arg Ser Ala Ser His Cys Val Leu	705	710	715
Ala Gly Met Lys Ala Leu Trp Asn Ser Ser Val Pro Val Cys Glu Arg	725	730	735

<210> 65

<211> 738

<212> PRT

<213> Homo sapiens

<400> 65

Met Arg Gly Pro Pro Ala Trp Pro Leu Arg Leu Leu Glu Pro Pro Ser	1	5	10	15
Pro Ala Glu Pro Gly Arg Leu Leu Pro Val Ala Cys Val Trp Ala Ala	20	25	30	
Ala Ser Arg Val Pro Gly Ser Leu Ser Pro Phe Thr Gly Leu Arg Pro	35	40	45	
Ala Arg Leu Trp Gly Ala Gly Pro Ala Leu Leu Trp Gly Val Gly Ala	50	55	60	
Ala Arg Arg Trp Arg Ser Gly Cys Arg Gly Gly Pro Gly Ala Ser	65	70	75	80
Arg Gly Val Leu Gly Leu Ala Arg Leu Leu Gly Leu Trp Ala Arg Gly	85	90	95	
Pro Gly Ser Cys Arg Cys Gly Ala Phe Ala Gly Pro Gly Ala Pro Arg	100	105	110	
Leu Pro Arg Ala Arg Phe Pro Gly Gly Pro Ala Ala Ala Ala Trp Ala	115	120	125	
Gly Asp Glu Ala Trp Arg Arg Gly Pro Ala Ala Pro Pro Gly Asp Lys	130	135	140	
Gly Arg Leu Arg Pro Ala Ala Ala Gly Leu Pro Glu Ala Arg Lys Leu	145	150	155	160
Leu Gly Leu Ala Tyr Pro Glu Arg Arg Leu Ala Ala Ala Val Gly	165	170	175	
Phe Leu Thr Met Ser Ser Val Ile Ser Met Ser Ala Pro Phe Phe Leu	180	185	190	
Gly Lys Ile Ile Asp Val Ile Tyr Thr Asn Pro Thr Val Asp Tyr Ser	195	200	205	
Asp Asn Leu Thr Arg Leu Cys Leu Gly Leu Ser Ala Val Phe Leu Cys	210	215	220	
Gly Ala Ala Ala Asn Ala Ile Arg Val Tyr Leu Met Gln Thr Ser Gly	225	230	235	240
Gln Arg Ile Val Asn Arg Leu Arg Thr Ser Leu Phe Ser Ser Ile Leu	245	250	255	
Arg Gln Glu Val Ala Phe Phe Asp Lys Thr Arg Thr Gly Glu Leu Ile	260	265	270	
Asn Arg Leu Ser Ser Asp Thr Ala Leu Leu Gly Arg Ser Val Thr Glu				

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275	280	285													
Asn	Leu	Ser	Asp	Gly	Leu	Arg	Ala	Gly	Ala	Gln	Ala	Ser	Val	Gly	Ile
290					295					300					
Ser	Met	Met	Phe	Phe	Val	Ser	Pro	Asn	Leu	Ala	Thr	Phe	Val	Leu	Ser
305					310					315					320
Val	Val	Pro	Pro	Val	Ser	Ile	Ile	Ala	Val	Ile	Tyr	Gly	Arg	Tyr	Leu
										325	330				335
Arg	Lys	Leu	Thr	Lys	Val	Thr	Gln	Asp	Ser	Leu	Ala	Gln	Ala	Thr	Gln
							340	345				350			
Leu	Ala	Glu	Glu	Arg	Ile	Gly	Asn	Val	Arg	Thr	Val	Arg	Ala	Phe	Gly
							355	360				365			
Lys	Glu	Met	Thr	Glu	Ile	Glu	Lys	Tyr	Ala	Ser	Lys	Val	Asp	His	Val
							370	375				380			
Met	Gln	Leu	Ala	Arg	Lys	Glu	Ala	Phe	Ala	Arg	Ala	Gly	Phe	Phe	Gly
385					390					395					400
Ala	Thr	Gly	Leu	Ser	Gly	Asn	Leu	Ile	Val	Leu	Ser	Val	Leu	Tyr	Lys
							405	410				415			
Gly	Gly	Leu	Leu	Met	Gly	Ser	Ala	His	Met	Thr	Val	Gly	Glu	Leu	Ser
							420	425				430			
Ser	Phe	Leu	Met	Tyr	Ala	Phe	Trp	Val	Gly	Ile	Ser	Ile	Gly	Gly	Leu
							435	440				445			
Ser	Ser	Phe	Tyr	Ser	Glu	Leu	Met	Lys	Gly	Leu	Gly	Ala	Gly	Gly	Arg
							450	455				460			
Leu	Trp	Glu	Leu	Leu	Glu	Arg	Glu	Pro	Lys	Leu	Pro	Phe	Asn	Glu	Gly
465					470					475					480
Val	Ile	Leu	Asn	Glu	Lys	Ser	Phe	Gln	Gly	Ala	Leu	Glu	Phe	Lys	Asn
							485	490				495			
Val	His	Phe	Ala	Tyr	Pro	Ala	Arg	Pro	Glu	Val	Pro	Ile	Phe	Gln	Asp
							500	505				510			
Phe	Ser	Leu	Ser	Ile	Pro	Ser	Gly	Ser	Val	Thr	Ala	Leu	Val	Gly	Pro
							515	520				525			
Ser	Gly	Ser	Gly	Lys	Ser	Thr	Val	Leu	Ser	Leu	Leu	Leu	Arg	Leu	Tyr
							530	535				540			
Asp	Pro	Ala	Ser	Gly	Thr	Ile	Ser	Leu	Asp	Gly	His	Asp	Ile	Arg	Gln
545							550	555				560			
Leu	Asn	Pro	Val	Trp	Leu	Arg	Ser	Lys	Ile	Gly	Thr	Val	Ser	Gln	Glu
							565	570				575			
Pro	Ile	Leu	Phe	Ser	Cys	Ser	Ile	Ala	Glu	Asn	Ile	Ala	Tyr	Gly	Ala
							580	585				590			
Asp	Asp	Pro	Ser	Ser	Val	Thr	Ala	Glu	Glu	Ile	Gln	Arg	Val	Ala	Glu
							595	600				605			
Val	Ala	Asn	Ala	Val	Ala	Phe	Ile	Arg	Asn	Phe	Pro	Gln	Gly	Phe	Asn
							610	615				620			
Thr	Val	Val	Gly	Glu	Lys	Gly	Val	Leu	Leu	Ser	Gly	Gly	Gln	Lys	Gln
							625	630				635			640
Arg	Ile	Ala	Ile	Ala	Arg	Ala	Leu	Leu	Lys	Asn	Pro	Lys	Ile	Leu	Leu
								645	650				655		
Leu	Asp	Glu	Ala	Thr	Ser	Ala	Leu	Asp	Ala	Glu	Asn	Glu	Tyr	Leu	Val
								660	665				670		
Gln	Glu	Ala	Leu	Asp	Arg	Leu	Met	Asp	Gly	Arg	Thr	Val	Leu	Val	Ile
							675	680				685			
Ala	His	Arg	Leu	Ser	Thr	Ile	Lys	Asn	Ala	Asn	Met	Val	Ala	Val	Leu
							690	695				700			
Asp	Gln	Gly	Lys	Ile	Thr	Glu	Tyr	Gly	Lys	His	Glu	Glu	Leu	Leu	Ser
							705	710				715			720
Lys	Pro	Asn	Gly	Ile	Tyr	Arg	Lys	Leu	Met	Asn	Lys	Gln	Ser	Phe	Ile
							725	730				735			
Ser	Ala														

<210> 66
 <211> 1273
 <212> PRT

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<213> Homo sapiens

<400> 66
 Gly Ile Leu Thr Trp Tyr Ile Glu Ala Val His Pro Gly Met Tyr Gly
 1 5 10 15
 Leu Pro Arg Pro Trp Tyr Phe Pro Leu Gln Lys Ser Tyr Trp Leu Gly
 20 25 30
 Ser Gly Arg Thr Glu Ala Trp Glu Trp Ser Trp Pro Trp Ala Arg Thr
 35 40 45
 Pro Arg Leu Ser Val Met Glu Glu Asp Gln Ala Cys Ala Met Glu Ser
 50 55 60
 Arg Arg Phe Glu Glu Thr Arg Gly Met Glu Glu Glu Pro Thr His Leu
 65 70 75 80
 Pro Leu Val Val Cys Val Asp Lys Leu Thr Lys Val Tyr Lys Asp Asp
 85 90 95
 Lys Lys Leu Ala Leu Asn Lys Leu Ser Leu Asn Leu Tyr Glu Asn Gln
 100 105 110
 Val Val Ser Phe Leu Gly His Asn Gly Ala Gly Lys Thr Thr His His
 115 120 125
 Asn Val Leu Phe Asp Arg Leu Thr Val Glu Glu His Leu Trp Phe Tyr
 130 135 140
 Ser Arg Leu Lys Ser Met Ala Gln Glu Glu Ile Arg Arg Glu Met Asp
 145 150 155 160
 Lys Met Ile Glu Asp Leu Glu Leu Ser Asn Lys Arg His Ser Leu Val
 165 170 175
 Gln Thr Leu Ser Gly Gly Met Lys Arg Lys Leu Ser Val Ala Ile Ala
 180 185 190
 Phe Val Gly Gly Ser Arg Ala Ile Ile Leu Asp Glu Pro Thr Ala Gly
 195 200 205
 Val Asp Pro Tyr Ala Arg Arg Ala Ile Trp Asp Leu Ile Leu Lys Tyr
 210 215 220
 Lys Pro Gly Arg Thr Ile Leu Leu Ser Thr His His Met Asp Glu Ala
 225 230 235 240
 Asp Leu Leu Gly Asp Arg Ile Ala Ile Ile Ser His Gly Lys Leu Lys
 245 250 255
 Cys Cys Gly Ser Pro Leu Phe Leu Lys Gly Thr Tyr Gly Asp Gly Tyr
 260 265 270
 Arg Leu Thr Leu Val Lys Arg Pro Ala Glu Pro Gly Gly Pro Gln Glu
 275 280 285
 Pro Gly Leu Ala Ser Ser Pro Pro Gly Arg Ala Pro Leu Ser Ser Cys
 290 295 300
 Ser Glu Leu Gln Val Ser Gln Phe Ile Arg Lys His Val Ala Ser Cys
 305 310 315 320
 Leu Leu Val Ser Asp Thr Ser Thr Glu Leu Ser Tyr Ile Leu Pro Ser
 325 330 335
 Glu Ala Ala Lys Lys Gly Ala Phe Glu Arg Leu Phe Gln His Leu Glu
 340 345 350
 Arg Ser Leu Asp Ala Leu His Leu Ser Ser Phe Gly Leu Met Asp Thr
 355 360 365
 Thr Leu Glu Glu Val Phe Leu Lys Val Ser Glu Glu Asp Gln Ser Leu
 370 375 380
 Glu Asn Ser Glu Ala Asp Val Lys Glu Ser Arg Lys Asp Val Leu Pro
 385 390 395 400
 Gly Ala Glu Gly Pro Ala Ser Gly Glu Gly His Ala Gly Asn Leu Ala
 405 410 415
 Arg Cys Ser Glu Leu Thr Gln Ser Gln Ala Ser Leu Gln Ser Ala Ser
 420 425 430
 Ser Val Gly Ser Ala Arg Gly Asp Glu Gly Ala Gly Tyr Thr Asp Val
 435 440 445
 Tyr Gly Asp Tyr Arg Pro Leu Phe Asp Asn Pro Gln Asp Pro Asp Asn
 450 455 460
 Val Ser Leu Gln Glu Val Glu Ala Glu Ala Leu Ser Arg Val Gly Gln
 465 470 475 480

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Gly Ser Arg Lys Leu Asp Gly Gly Trp Leu Lys Val Arg Gln Phe His
 485 490 495
 Gly Leu Leu Val Lys Arg Phe His Cys Ala Arg Arg Asn Ser Lys Ala
 500 505 510
 Leu Phe Ser Gln Ile Leu Leu Pro Ala Phe Phe Val Cys Val Ala Met
 515 520 525
 Thr Val Ala Leu Ser Val Pro Glu Ile Gly Asp Leu Pro Pro Leu Val
 530 535 540
 Leu Ser Pro Ser Gln Tyr His Asn Tyr Thr Gln Pro Arg Gly Asn Phe
 545 550 555 560
 Ile Pro Tyr Ala Asn Glu Glu Arg Arg Glu Tyr Arg Arg His Pro Ala
 565 570 575
 Gly Ala Ser Leu Val Gly Gly Ala Ser Glu Gly Ala Gly Thr Ala Leu
 580 585 590
 Val Gly Gln Ala Gly Glu Gly Ala Gly Leu Ala Arg Gly Gly Asp Trp
 595 600 605
 Gln Pro His Leu Thr Leu Ile Trp Gly Arg Gly Gly Glu Asp Leu Gly
 610 615 620
 Pro Glu Ser Ala Ala Pro Ala Pro Pro Cys Ala Gly Ile Thr Val Thr
 625 630 635 640
 Asn His Pro Met Asn Lys Thr Ser Ala Ser Leu Ser Leu Asp Tyr Leu
 645 650 655
 Leu Gln Gly Thr Asp Val Val Ile Ala Ile Phe Ile Ile Val Ala Met
 660 665 670
 Ser Phe Val Pro Ala Ser Phe Val Val Phe Leu Val Ala Glu Lys Ser
 675 680 685
 Thr Lys Ala Lys His Leu Gln Phe Val Ser Gly Cys Asn Pro Ile Ile
 690 695 700
 Tyr Trp Leu Ala Asn Tyr Val Trp Asp Met Leu Asn Tyr Leu Val Pro
 705 710 715 720
 Ala Thr Cys Cys Val Ile Ile Leu Phe Val Phe Asp Leu Pro Ala Tyr
 725 730 735
 Thr Ser Pro Thr Asn Phe Pro Ala Val Leu Ser Leu Phe Leu Leu Tyr
 740 745 750
 Gly Trp Ser Ile Thr Pro Ile Met Tyr Pro Ala Ser Phe Trp Phe Glu
 755 760 765
 Val Pro Ser Ser Ala Tyr Val Phe Leu Ile Val Ile Asn Leu Phe Ile
 770 775 780
 Gly Ile Thr Ala Thr Val Ala Thr Phe Leu Leu Gln Leu Phe Glu His
 785 790 795 800
 Asp Lys Asp Leu Lys Val Val Asn Ser Tyr Leu Lys Ser Cys Phe Leu
 805 810 815
 Ile Phe Pro Asn Tyr Asn Leu Gly His Gly Leu Met Glu Met Ala Tyr
 820 825 830
 Asn Glu Tyr Ile Asn Glu Tyr Tyr Ala Lys Ile Gly Gln Phe Asp Lys
 835 840 845
 Met Lys Ser Pro Phe Glu Trp Asp Ile Val Thr Arg Gly Leu Val Ala
 850 855 860
 Met Ala Val Glu Gly Val Val Gly Phe Leu Leu Thr Ile Met Cys Gln
 865 870 875 880
 Tyr Asn Phe Leu Arg Arg Pro Gln Arg Met Pro Val Ser Thr Lys Pro
 885 890 895
 Val Glu Asp Asp Val Asp Val Ala Ser Glu Arg Gln Arg Val Leu Arg
 900 905 910
 Gly Asp Ser Asp Asn Asp Met Cys Phe Gly Leu Leu Gly Val Asn Gly
 915 920 925
 Ala Gly Lys Thr Ser Thr Phe Lys Met Leu Thr Gly Asp Glu Ser Thr
 930 935 940
 Thr Gly Gly Glu Ala Phe Val Asn Gly His Ser Val Leu Lys Glu Leu
 945 950 955 960
 Leu Gln Val Gln Gln Ser Leu Gly Tyr Cys Pro Gln Cys Asp Ala Leu
 965 970 975
 Phe Asp Glu Leu Thr Ala Arg Glu His Leu Gln Leu Tyr Thr Arg Leu

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980	985	990	
Arg Gly Ile Ser Trp Lys Asp Glu Ala Arg Val Val Lys Trp Ala Leu			
995	1000	1005	
Glu Lys Leu Glu Leu Thr Lys Tyr Ala Asp Lys Pro Ala Gly Thr Tyr			
1010	1015	1020	
Ser Gly Gly Asn Lys Arg Lys Leu Ser Thr Ala Ile Ala Leu Ile Gly			
1025	1030	1035	1040
Tyr Pro Ala Phe Ile Phe Leu Asp Glu Pro Thr Thr Gly Met Asp Pro			
1045	1050	1055	
Lys Ala Arg Arg Phe Leu Trp Asn Leu Ile Leu Asp Leu Ile Lys Thr			
1060	1065	1070	
Gly Arg Ser Val Val Leu Thr Ser His Ser Met Glu Glu Cys Glu Ala			
1075	1080	1085	
Leu Cys Thr Arg Leu Ala Ile Met Val Asn Gly Arg Leu Arg Cys Leu			
1090	1095	1100	
Gly Ser Ile Gln His Leu Lys Asn Arg Phe Gly Asp Gly Tyr Met Ile			
1105	1110	1115	1120
Thr Val Arg Thr Lys Ser Ser Gln Ser Val Lys Asp Val Val Arg Phe			
1125	1130	1135	
Phe Asn Arg Asn Phe Pro Glu Ala Met Leu Lys Glu Arg His His Thr			
1140	1145	1150	
Lys Val Gln Tyr Gln Leu Lys Ser Glu His Ile Ser Leu Ala Gln Val			
1155	1160	1165	
Phe Ser Lys Met Glu Gln Val Ser Gly Val Leu Gly Ile Glu Asp Tyr			
1170	1175	1180	
Ser Val Ser Gln Thr Thr Leu Asp Asn Val Phe Val Asn Phe Ala Lys			
1185	1190	1195	1200
Lys Gln Ser Asp Asn Leu Glu Gln Glu Thr Glu Pro Pro Ser Ala			
1205	1210	1215	
Leu Gln Ser Pro Leu Gly Cys Leu Leu Ser Leu Leu Arg Pro Arg Ser			
1220	1225	1230	
Ala Pro Thr Glu Leu Arg Ala Leu Val Ala Asp Glu Pro Glu Asp Leu			
1235	1240	1245	
Asp Thr Glu Asp Glu Gly Leu Ile Ser Phe Glu Glu Glu Arg Ala Gln			
1250	1255	1260	
Leu Ser Phe Asn Thr Asp Thr Leu Cys			
1265	1270		

<210> 67

<211> 1479

<212> PRT

<213> Homo sapiens

<400> 67

Met Gly Pro Gly Arg Pro Ala Pro Ala Pro Trp Pro Arg His Leu Leu			
1	5	10	15
Arg Cys Val Leu Leu Leu Gly Cys Leu His Leu Gly Arg Pro Gly Ala			
20	25	30	
Pro Gly Asp Ala Ala Leu Pro Glu Pro Asn Ile Phe Leu Ile Phe Ser			
35	40	45	
His Gly Leu Gln Gly Cys Leu Glu Ala Gln Gly Gly Gln Val Arg Val			
50	55	60	
Thr Pro Ala Cys Asn Thr Ser Leu Pro Ala Gln Arg Trp Lys Trp Val			
65	70	75	80
Ser Arg Asn Arg Leu Phe Asn Leu Gly Thr Met Gln Cys Leu Gly Thr			
85	90	95	
Gly Trp Pro Gly Thr Asn Thr Ala Ser Leu Gly Met Tyr Glu Cys			
100	105	110	
Asp Arg Glu Ala Leu Asn Leu Arg Trp His Cys Arg Thr Leu Gly Asp			
115	120	125	
Gln Leu Ser Leu Leu Leu Gly Ala Arg Thr Ser Asn Ile Ser Lys Pro			
130	135	140	
Gly Thr Leu Glu Arg Gly Asp Gln Thr Arg Ser Gly Gln Trp Arg Ile			

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145 150 155 160
 Tyr Gly Ser Glu Glu Asp Leu Cys Ala Leu Pro Tyr His Glu Val Tyr
 165 170 175
 Thr Ile Gln Gly Asn Ser His Gly Lys Pro Cys Thr Ile Pro Phe Lys
 180 185 190
 Tyr Asp Asn Gln Trp Phe His Gly Cys Thr Ser Thr Gly Arg Glu Asp
 195 200 205
 Gly His Leu Trp Cys Ala Thr Thr Gln Asp Tyr Gly Lys Asp Glu Arg
 210 215 220
 Trp Gly Phe Cys Pro Ile Lys Ser Asn Asp Cys Glu Thr Phe Trp Asp
 225 230 235 240
 Lys Asp Gln Leu Thr Asp Ser Cys Tyr Gln Phe Asn Phe Gln Ser Thr
 245 250 255
 Leu Ser Trp Arg Glu Ala Trp Ala Ser Cys Glu Gln Gln Gly Ala Asp
 260 265 270
 Leu Leu Ser Ile Thr Glu Ile His Glu Gln Thr Tyr Ile Asn Gly Leu
 275 280 285
 Leu Thr Gly Tyr Ser Ser Thr Leu Trp Ile Gly Leu Asn Asp Leu Asp
 290 295 300
 Thr Ser Gly Gly Trp Gln Trp Ser Asp Asn Ser Pro Leu Lys Tyr Leu
 305 310 315 320
 Asn Trp Glu Ser Asp Gln Pro Asp Asn Pro Ser Glu Glu Asn Cys Gly
 325 330 335
 Val Ile Arg Thr Glu Ser Ser Gly Gly Trp Gln Asn Arg Asp Cys Ser
 340 345 350
 Ile Ala Leu Pro Tyr Val Cys Lys Lys Lys Pro Asn Ala Thr Ala Glu
 355 360 365
 Pro Thr Pro Pro Asp Arg Trp Ala Asn Val Lys Val Glu Cys Glu Pro
 370 375 380
 Ser Trp Gln Pro Phe Gln Gly His Cys Tyr Arg Leu Gln Ala Glu Lys
 385 390 395 400
 Arg Ser Trp Gln Glu Ser Lys Lys Ala Cys Leu Arg Gly Gly Asp
 405 410 415
 Leu Val Ser Ile His Ser Met Ala Glu Leu Glu Phe Ile Thr Lys Gln
 420 425 430
 Ile Lys Gln Glu Val Glu Glu Leu Trp Ile Gly Leu Asn Asp Leu Lys
 435 440 445
 Leu Gln Met Asn Phe Glu Trp Ser Asp Gly Ser Leu Val Ser Phe Thr
 450 455 460
 His Trp His Pro Phe Glu Pro Asn Asn Phe Arg Asp Ser Leu Glu Asp
 465 470 475 480
 Cys Val Thr Ile Trp Gly Pro Glu Gly Arg Trp Asn Asp Ser Pro Cys
 485 490 495
 Asn Gln Ser Leu Pro Ser Ile Cys Lys Lys Ala Gly Gln Leu Ser Gln
 500 505 510
 Gly Ala Ala Glu Glu Asp His Gly Cys Arg Lys Gly Trp Thr Trp His
 515 520 525
 Ser Pro Ser Cys Tyr Trp Leu Gly Glu Asp Gln Val Thr Tyr Ser Glu
 530 535 540
 Ala Arg Arg Leu Cys Thr Asp His Gly Ser Gln Leu Val Thr Ile Thr
 545 550 555 560
 Asn Arg Phe Glu Gln Ala Phe Val Ser Ser Leu Ile Tyr Asn Trp Glu
 565 570 575
 Gly Glu Tyr Phe Trp Thr Ala Leu Gln Asp Leu Asn Ser Thr Gly Ser
 580 585 590
 Phe Phe Trp Leu Ser Gly Asp Glu Val Met Tyr Thr His Trp Asn Arg
 595 600 605
 Asp Gln Pro Gly Tyr Ser Arg Gly Gly Cys Val Ala Leu Ala Thr Gly
 610 615 620
 Ser Ala Met Gly Leu Trp Glu Val Lys Asn Cys Thr Ser Phe Arg Ala
 625 630 635 640
 Arg Tyr Ile Cys Arg Gln Ser Leu Gly Thr Pro Val Thr Pro Glu Leu
 645 650 655

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Pro Gly Pro Asp Pro Thr Pro Ser Leu Thr Gly Ser Cys Pro Gln Gly
 660 665 670
 Trp Ala Ser Asp Thr Lys Leu Arg Tyr Cys Tyr Lys Val Phe Ser Ser
 675 680 685
 Glu Arg Leu Gln Asp Lys Lys Ser Trp Val Gln Ala Gln Gly Ala Cys
 690 695 700
 Gln Glu Leu Gly Ala Gln Leu Leu Ser Leu Ala Ser Tyr Glu Glu Glu
 705 710 715 720
 His Phe Val Ala Asn Met Leu Asn Lys Ile Phe Gly Glu Ser Glu Pro
 725 730 735
 Glu Ile His Glu Gln His Trp Phe Trp Ile Gly Leu Asn Arg Arg Asp
 740 745 750
 Pro Arg Gly Gly Gln Ser Trp Arg Trp Ser Asp Gly Val Gly Phe Ser
 755 760 765
 Tyr His Asn Phe Asp Arg Ser Arg His Asp Asp Asp Asp Ile Arg Gly
 770 775 780
 Cys Ala Val Leu Asp Leu Ala Ser Leu Gln Trp Val Ala Met Gln Cys
 785 790 795 800
 Asp Thr Gln Leu Asp Trp Ile Cys Lys Ile Pro Arg Gly Thr Asp Val
 805 810 815
 Arg Glu Pro Asp Asp Ser Pro Gln Gly Arg Arg Glu Trp Leu Arg Phe
 820 825 830
 Gln Glu Ala Glu Tyr Lys Phe Phe Glu His His Ser Thr Trp Ala Gln
 835 840 845
 Ala Gln Arg Ile Cys Thr Trp Phe Gln Ala Glu Leu Thr Ser Val His
 850 855 860
 Ser Gln Ala Glu Leu Asp Phe Leu Ser His Asn Leu Gln Lys Phe Ser
 865 870 875 880
 Arg Ala Gln Glu Gln His Trp Trp Ile Gly Leu His Thr Ser Glu Ser
 885 890 895
 Asp Gly Arg Phe Arg Trp Thr Asp Gly Ser Ile Ile Asn Phe Ile Ser
 900 905 910
 Trp Ala Pro Gly Lys Pro Arg Pro Val Gly Lys Asp Lys Lys Cys Val
 915 920 925
 Tyr Met Thr Ala Ser Arg Glu Asp Trp Gly Asp Gln Arg Cys Leu Thr
 930 935 940
 Ala Leu Pro Tyr Ile Cys Lys Arg Ser Asn Val Thr Lys Glu Thr Gln
 945 950 955 960
 Pro Pro Asp Leu Pro Thr Thr Ala Leu Gly Gly Cys Pro Ser Asp Trp
 965 970 975
 Ile Gln Phe Leu Asn Lys Cys Phe Gln Val Gln Gly Gln Glu Pro Gln
 980 985 990
 Ser Arg Val Lys Trp Ser Glu Ala Gln Phe Ser Cys Glu Gln Gln Glu
 995 1000 1005
 Ala Gln Leu Val Thr Ile Thr Asn Pro Leu Glu Gln Ala Phe Ile Thr
 1010 1015 1020
 Ala Ser Leu Pro Asn Val Thr Phe Asp Leu Trp Ile Gly Leu His Ala
 1025 1030 1035 1040
 Ser Gln Arg Asp Phe Gln Trp Val Glu Gln Glu Pro Leu Met Tyr Ala
 1045 1050 1055
 Asn Trp Ala Pro Gly Glu Pro Ser Gly Pro Ser Pro Ala Pro Ser Gly
 1060 1065 1070
 Asn Lys Pro Thr Ser Cys Ala Val Val Leu His Ser Pro Ser Ala His
 1075 1080 1085
 Phe Thr Gly Arg Trp Asp Asp Arg Ser Cys Thr Glu Glu Thr His Gly
 1090 1095 1100
 Phe Ile Cys Gln Lys Gly Thr Asp Pro Ser Leu Ser Pro Ser Pro Ala
 1105 1110 1115 1120
 Ala Leu Pro Pro Ala Pro Gly Thr Glu Leu Ser Tyr Leu Asn Gly Thr
 1125 1130 1135
 Phe Arg Leu Leu Gln Lys Pro Leu Arg Trp His Asp Ala Leu Leu Leu
 1140 1145 1150
 Cys Glu Ser His Asn Ala Ser Leu Ala Tyr Val Pro Asp Pro Tyr Thr

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1155	1160	1165
Gln Ala Phe Leu Thr Gln Ala Ala Arg Gly Leu Arg Thr Pro Leu Trp		
1170	1175	1180
Ile Gly Leu Ala Gly Glu Glu Gly Ser Arg Arg Tyr Ser Trp Val Ser		
1185	1190	1195
Glu Glu Pro Leu Asn Tyr Val Gly Trp Gln Asp Gly Glu Pro Gln Gln		
1205	1210	1215
Pro Gly Gly Cys Thr Tyr Val Asp Val Asp Gly Ala Trp Arg Thr Thr		
1220	1225	1230
Ser Cys Asp Thr Lys Leu Gln Gly Ala Val Cys Gly Val Ser Ser Gly		
1235	1240	1245
Pro Pro Pro Arg Arg Ile Ser Tyr His Gly Ser Cys Pro Gln Gly		
1250	1255	1260
Leu Ala Asp Ser Ala Trp Ile Pro Phe Arg Glu His Cys Tyr Ser Phe		
1265	1270	1275
His Met Glu Leu Leu Gly His Lys Glu Ala Arg Gln Arg Cys Gln		
1285	1290	1295
Arg Ala Gly Ala Val Leu Ser Ile Leu Asp Glu Met Glu Asn Val		
1300	1305	1310
Phe Val Trp Glu His Leu Gln Ser Tyr Glu Gly Gln Ser Arg Gly Ala		
1315	1320	1325
Trp Leu Gly Met Asn Phe Asn Pro Lys Gly Gly Thr Leu Val Trp Gln		
1330	1335	1340
Asp Asn Thr Ala Val Asn Tyr Ser Asn Trp Gly Pro Pro Gly Leu Gly		
1345	1350	1355
Pro Ser Met Leu Ser His Asn Ser Cys Tyr Trp Ile Gln Ser Asn Ser		
1365	1370	1375
Gly Leu Trp Arg Pro Gly Ala Cys Thr Asn Ile Thr Met Gly Val Val		
1380	1385	1390
Cys Lys Leu Pro Arg Ala Glu Gln Ser Ser Phe Ser Pro Ser Ala Leu		
1395	1400	1405
Pro Glu Asn Pro Ala Ala Leu Val Val Val Leu Met Ala Val Leu Leu		
1410	1415	1420
Leu Leu Ala Leu Leu Thr Ala Ala Leu Ile Leu Tyr Arg Arg Arg Gln		
1425	1430	1435
Ser Ile Glu Arg Gly Ala Phe Glu Gly Ala Arg Tyr Ser Arg Ser Ser		
1445	1450	1455
Ser Ser Pro Thr Glu Ala Thr Glu Lys Asn Ile Leu Val Ser Asp Met		
1460	1465	1470
Glu Met Asn Glu Gln Gln Glu		
1475		

<210> 68

<211> 583

<212> PRT

<213> Homo sapiens

<400> 68

Met Lys Tyr Ile Leu Val Thr Gly Gly Val Ile Ser Gly Ile Gly Lys			
1	5	10	15
Gly Ile Ile Ala Ser Ser Ile Gly Thr Ile Leu Lys Ser Cys Gly Leu			
20	25	30	
Arg Val Thr Ala Ile Lys Ile Asp Pro Tyr Ile Asn Ile Asp Ala Gly			
35	40	45	
Thr Phe Ser Pro Tyr Glu His Gly Glu Val Phe Val Leu Asn Asp Gly			
50	55	60	
Gly Glu Val Asp Leu Asp Leu Gly Asn Tyr Glu Arg Phe Leu Asp Ile			
65	70	75	80
Asn Leu Tyr Lys Asp Asn Asn Ile Thr Thr Gly Lys Ile Tyr Gln His			
85	90	95	
Val Ile Asn Lys Glu Arg Arg Gly Asp Tyr Leu Gly Lys Thr Val Gln			
100	105	110	
Val Val Pro His Ile Thr Asp Ala Val Gln Glu Trp Val Met Asn Gln			

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Ala	Lys	115	Val	Pro	Val	Asp	Gly	Asn	120	Lys	Glu	Glu	Pro	Gln	Ile	Cys	Leu
		130					135			135			140				
Gly	Gly		Thr	Ile	Gly	Asp	Ile	Glu	Gly	Met	Pro	Phe	Val	Glu	Ala	Phe	
							150			155			155			160	
Arg	Gln	Phe	Gln	Phe	Lys	Ala	Lys	Arg	Glu	Asn	Phe	Cys	Asn	Ile	His		
							165			170			175				
Val	Ser	Leu	Val	Pro	Gln	Leu	Ser	Ala	Thr	Gly	Glu	Gln	Lys	Thr	Lys		
							180			185			190				
Pro	Thr	Gln	Asn	Ser	Val	Arg	Ala	Leu	Arg	Gly	Leu	Gly	Leu	Ser	Pro		
							195			200			205				
Asp	Leu	Ile	Val	Cys	Arg	Ser	Ser	Thr	Pro	Ile	Glu	Met	Ala	Val	Lys		
							210			215			220				
Glu	Lys	Ile	Ser	Met	Phe	Cys	His	Val	Asn	Pro	Glu	Gln	Val	Ile	Cys		
							225			230			235			240	
Ile	His	Asp	Val	Ser	Ser	Thr	Tyr	Arg	Val	Pro	Val	Leu	Leu	Glu	Glu		
							245			250			255				
Gln	Ser	Ile	Val	Lys	Tyr	Phe	Lys	Glu	Arg	Leu	His	Leu	Pro	Ile	Gly		
							260			265			270				
Asp	Ser	Ala	Ser	Asn	Leu	Leu	Phe	Lys	Trp	Arg	Asn	Met	Ala	Asp	Arg		
							275			280			285				
Tyr	Glu	Arg	Leu	Gln	Lys	Ile	Cys	Ser	Ile	Ala	Leu	Val	Gly	Lys	Tyr		
							290			295			300				
Thr	Lys	Leu	Arg	Asp	Cys	Tyr	Ala	Ser	Val	Phe	Lys	Ala	Leu	Glu	His		
							305			310			315			320	
Ser	Ala	Leu	Ala	Ile	Asn	His	Lys	Leu	Asn	Leu	Met	Tyr	Ile	Asp	Ser		
							325			330			335				
Ile	Asp	Leu	Glu	Lys	Ile	Thr	Glu	Thr	Glu	Asp	Pro	Val	Lys	Phe	His		
							340			345			350				
Glu	Ala	Trp	Gln	Lys	Leu	Cys	Lys	Ala	Asp	Gly	Ile	Leu	Val	Pro	Gly		
							355			360			365				
Gly	Phe	Gly	Ile	Arg	Gly	Thr	Leu	Gly	Lys	Leu	Gln	Ala	Ile	Ser	Trp		
							370			375			380				
Ala	Arg	Thr	Lys	Lys	Ile	Pro	Phe	Leu	Gly	Val	Cys	Leu	Gly	Met	Gln		
							385			390			395			400	
Leu	Ala	Val	Ile	Glu	Phe	Ala	Arg	Asn	Cys	Leu	Asn	Leu	Lys	Asp	Ala		
							405			410			415				
Asp	Ser	Thr	Glu	Phe	Arg	Pro	Asn	Ala	Pro	Val	Pro	Leu	Val	Ile	Asp		
							420			425			430				
Met	Pro	Glu	His	Asn	Pro	Gly	Asn	Leu	Gly	Gly	Thr	Met	Arg	Leu	Gly		
							435			440			445				
Ile	Arg	Arg	Thr	Val	Phe	Lys	Thr	Glu	Asn	Ser	Ile	Leu	Arg	Lys	Leu		
							450			455			460				
Tyr	Gly	Asp	Val	Pro	Phe	Ile	Glu	Glu	Arg	His	Arg	His	Arg	Phe	Glu		
							465			470			475			480	
Val	Asn	Pro	Asn	Leu	Ile	Lys	Gln	Phe	Glu	Gln	Asn	Asp	Leu	Ser	Phe		
							485			490			495				
Val	Gly	Gln	Asp	Val	Asp	Gly	Asp	Arg	Met	Glu	Ile	Ile	Glu	Leu	Ala		
							500			505			510				
Asn	His	Pro	Tyr	Phe	Val	Gly	Val	Gln	Phe	His	Pro	Glu	Phe	Ser	Ser		
							515			520			525				
Arg	Pro	Met	Lys	Pro	Ser	Pro	Pro	Tyr	Leu	Gly	Leu	Leu	Leu	Ala	Ala		
							530			535			540				
Thr	Gly	Asn	Leu	Asn	Ala	Tyr	Leu	Gln	Gln	Gly	Cys	Lys	Leu	Ser	Ser		
							545			550			555			560	
Ser	Asp	Arg	Tyr	Ser	Asp	Ala	Ser	Asp	Asp	Ser	Phe	Ser	Glu	Pro	Arg		
							565			570			575				
Ile	Ala	Glu	Leu	Glu	Ile	Ser											
							580										

<210> 69
 <211> 1241
 <212> PRT

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<213> Homo sapiens

<400> 69

Ser Pro Ile Leu Cys Gly Ala Ala Thr Ala Leu Asn Cys Ser Leu Cys
 1 5 10 15
 Pro Gln Asp Ser Asn Leu Ser Val His Thr Glu Asn Pro Asp Leu Thr
 20 25 30
 Pro Cys Phe Gln Asn Ser Leu Leu Ala Trp Val Pro Cys Ile Tyr Leu
 35 40 45
 Trp Val Ala Leu Pro Cys Tyr Leu Leu Tyr Leu Arg His His Cys Arg
 50 55 60
 Gly Tyr Ile Ile Leu Ser His Leu Ser Lys Leu Lys Met Val Leu Gly
 65 70 75 80
 Val Leu Leu Trp Cys Val Ser Trp Ala Asp Leu Phe Tyr Ser Phe His
 85 90 95
 Gly Leu Val His Gly Arg Ala Pro Ala Pro Val Phe Phe Val Thr Pro
 100 105 110
 Leu Val Val Gly Val Thr Met Leu Leu Ala Thr Leu Leu Ile Gln Tyr
 115 120 125
 Glu Arg Leu Gln Gly Val Gln Ser Ser Gly Val Leu Ile Ile Phe Trp
 130 135 140
 Phe Leu Cys Val Val Cys Ala Ile Val Pro Phe Arg Ser Lys Ile Leu
 145 150 155 160
 Leu Ala Lys Ala Glu Gly Glu Ile Ser Asp Pro Phe Arg Phe Thr Thr
 165 170 175
 Phe Tyr Ile His Phe Ala Leu Val Leu Ser Ala Leu Ile Leu Ala Cys
 180 185 190
 Phe Arg Glu Lys Pro Pro Phe Phe Ser Ala Lys Asn Val Asp Pro Asn
 195 200 205
 Pro Tyr Pro Glu Thr Ser Ala Gly Phe Leu Ser Arg Leu Phe Phe Trp
 210 215 220
 Trp Phe Thr Lys Met Ala Ile Tyr Gly Tyr Arg His Pro Leu Glu Glu
 225 230 235 240
 Lys Asp Leu Trp Ser Leu Lys Glu Glu Asp Arg Ser Gln Met Val Val
 245 250 255
 Gln Gln Leu Leu Glu Ala Trp Arg Lys Gln Glu Lys Gln Thr Ala Arg
 260 265 270
 His Lys Ala Ser Ala Ala Pro Gly Lys Asn Ala Ser Gly Glu Asp Glu
 275 280 285
 Val Leu Leu Gly Ala Arg Pro Arg Pro Arg Lys Pro Ser Phe Leu Lys
 290 295 300
 Ala Leu Leu Ala Thr Phe Gly Ser Ser Phe Leu Ile Ser Ala Cys Phe
 305 310 315 320
 Lys Leu Ile Gln Asp Leu Leu Ser Phe Ile Asn Pro Gln Leu Leu Ser
 325 330 335
 Ile Leu Ile Arg Phe Ile Ser Asn Pro Met Ala Pro Ser Trp Trp Gly
 340 345 350
 Phe Leu Val Ala Gly Leu Met Phe Leu Cys Ser Met Met Gln Ser Leu
 355 360 365
 Ile Leu Gln His Tyr Tyr His Tyr Ile Phe Val Thr Gly Val Lys Phe
 370 375 380
 Arg Thr Gly Ile Met Gly Val Ile Tyr Arg Lys Ala Leu Val Ile Thr
 385 390 395 400
 Asn Ser Val Lys Arg Ala Ser Thr Val Gly Glu Ile Val Asn Leu Met
 405 410 415
 Ser Val Asp Ala Gln Arg Phe Met Asp Leu Ala Pro Phe Leu Asn Leu
 420 425 430
 Leu Trp Ser Ala Pro Leu Gln Ile Ile Leu Ala Ile Tyr Phe Leu Trp
 435 440 445
 Gln Asn Leu Gly Pro Ser Val Leu Ala Gly Val Ala Phe Met Val Leu
 450 455 460
 Leu Ile Pro Leu Asn Gly Ala Val Ala Val Lys Met Arg Ala Phe Gln
 465 470 475 480

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Val Lys Gln Met Lys Leu Lys Asp Ser Arg Ile Lys Leu Met Ser Glu
 485 490 495
 Ile Leu Asn Gly Ile Lys Val Leu Lys Leu Tyr Ala Trp Glu Pro Ser
 500 505 510
 Phe Leu Lys Gln Val Glu Gly Ile Arg Gln Gly Glu Leu Gln Leu Leu
 515 520 525
 Arg Thr Ala Ala Tyr Leu His Thr Thr Thr Phe Thr Trp Met Cys
 530 535 540
 Ser Pro Phe Leu Val Thr Leu Ile Thr Leu Trp Val Tyr Val Tyr Val
 545 550 555 560
 Asp Pro Asn Asn Val Leu Asp Ala Glu Lys Ala Phe Val Ser Val Ser
 565 570 575
 Leu Phe Asn Ile Leu Arg Leu Pro Leu Asn Met Leu Pro Gln Leu Ile
 580 585 590
 Ser Asn Leu Thr Gln Ala Ser Val Ser Leu Lys Arg Ile Gln Gln Phe
 595 600 605
 Leu Ser Gln Glu Glu Leu Asp Pro Gln Ser Val Glu Arg Lys Thr Ile
 610 615 620
 Ser Pro Gly Tyr Ala Ile Thr Ile His Ser Gly Thr Phe Thr Trp Ala
 625 630 635 640
 Gln Asp Leu Pro Pro Thr Leu His Ser Leu Asp Ile Gln Val Pro Lys
 645 650 655
 Gly Ala Leu Val Ala Val Val Gly Pro Val Gly Cys Gly Lys Ser Ser
 660 665 670
 Leu Val Ser Ala Leu Leu Gly Glu Met Glu Lys Leu Glu Gly Lys Val
 675 680 685
 His Met Lys Gly Ser Val Ala Tyr Val Pro Gln Gln Ala Trp Ile Gln
 690 695 700
 Asn Cys Thr Leu Gln Glu Asn Val Leu Phe Gly Lys Ala Leu Asn Pro
 705 710 715 720
 Lys Arg Tyr Gln Gln Thr Leu Glu Ala Cys Ala Leu Leu Ala Asp Leu
 725 730 735
 Glu Met Leu Pro Gly Gly Asp Gln Thr Glu Ile Gly Glu Lys Gly Ile
 740 745 750
 Asn Leu Ser Gly Gly Gln Arg Gln Arg Val Ser Leu Ala Arg Ala Val
 755 760 765
 Tyr Ser Asp Ala Asp Ile Phe Leu Leu Asp Asp Pro Leu Ser Ala Val
 770 775 780
 Asp Ser His Val Ala Lys His Ile Phe Asp His Val Ile Gly Pro Glu
 785 790 795 800
 Gly Val Leu Ala Gly Lys Thr Arg Val Leu Val Thr His Gly Ile Ser
 805 810 815
 Phe Leu Pro Gln Thr Asp Phe Ile Ile Val Leu Ala Asp Gly Gln Val
 820 825 830
 Ser Glu Met Gly Pro Tyr Pro Ala Leu Leu Gln Arg Asn Gly Ser Phe
 835 840 845
 Ala Asn Phe Leu Cys Asn Tyr Ala Pro Asp Glu Asp Gln Gly His Leu
 850 855 860
 Glu Asp Ser Trp Thr Ala Leu Glu Gly Ala Glu Asp Lys Glu Ala Leu
 865 870 875 880
 Leu Ile Glu Asp Thr Leu Ser Asn His Thr Asp Leu Thr Asp Asn Asp
 885 890 895
 Pro Val Thr Tyr Val Val Gln Lys Gln Phe Met Arg Gln Leu Ser Ala
 900 905 910
 Leu Ser Ser Asp Gly Glu Gly Gln Gly Arg Pro Val Pro Arg Arg His
 915 920 925
 Leu Gly Pro Ser Glu Lys Val Gln Val Thr Glu Ala Lys Ala Asp Gly
 930 935 940
 Ala Leu Thr Gln Glu Glu Lys Ala Ala Ile Gly Thr Val Glu Leu Ser
 945 950 955 960
 Val Phe Trp Asp Tyr Ala Lys Ala Val Gly Leu Cys Thr Thr Leu Ala
 965 970 975
 Ile Cys Leu Leu Tyr Val Gly Gln Ser Ala Ala Ala Ile Gly Ala Asn

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980	985	990	
val Trp Leu Ser Ala Trp Thr Asn Asp Ala Met Ala Asp Ser Arg Gln			
995	1000	1005	
Asn Asn Thr Ser Leu Arg Leu Gly Val Tyr Ala Ala Leu Gly Ile Leu			
1010	1015	1020	
Gln Gly Phe Leu Val Met Leu Ala Ala Met Ala Met Ala Ala Gly Gly			
1025	1030	1035	1040
Ile Gln Ala Ala Arg Val Leu His Gln Ala Leu Leu His Asn Lys Ile			
1045	1050	1055	
Arg Ser Pro Gln Ser Phe Phe Asp Thr Thr Pro Ser Gly Arg Ile Leu			
1060	1065	1070	
Asn Cys Phe Ser Lys Asp Ile Tyr Val Val Asp Glu Val Leu Ala Pro			
1075	1080	1085	
Val Ile Leu Met Leu Leu Asn Ser Phe Phe Asn Ala Ile Ser Thr Leu			
1090	1095	1100	
Val Val Ile Met Ala Ser Thr Pro Leu Phe Thr Val Val Ile Leu Pro			
1105	1110	1115	1120
Leu Ala Val Leu Tyr Thr Leu Val Gln Arg Phe Tyr Ala Ala Thr Ser			
1125	1130	1135	
Arg Gln Leu Lys Arg Leu Glu Ser Val Ser Arg Ser Pro Ile Tyr Ser			
1140	1145	1150	
His Phe Ser Glu Thr Val Thr Gly Ala Ser Val Ile Arg Ala Tyr Asn			
1155	1160	1165	
Arg Ser Arg Asp Phe Glu Ile Ile Ser Asp Thr Lys Val Asp Ala Asn			
1170	1175	1180	
Gln Arg Ser Cys Tyr Pro Tyr Ile Ile Ser Asn Arg Ser Glu Ala Ala			
1185	1190	1195	1200
Ser Leu Ala Pro Cys Ser Ser Arg Asn Ser Gln Gln Ala Leu Trp Cys			
1205	1210	1215	
Ser Gly Ser Leu Ser Leu Leu Ser Pro Lys Gln Lys Thr Gly Pro Ala			
1220	1225	1230	
Leu Pro Leu Pro His Phe Leu Leu Ile			
1235	1240		

<210> 70

<211> 573

<212> PRT

<213> Homo sapiens

<400> 70

Ala Phe His Gln Gly Ser Leu Ile Leu Cys Leu Ala Leu Gln Ser Asp			
1	5	10	15
Arg Leu Leu Ile Lys Gly Gly Arg Ile Ile Asn Asp Asp Gln Ser Leu			
20	25	30	
Tyr Ala Asp Val Tyr Leu Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu			
35	40	45	
Asn Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala Asn Gly Arg			
50	55	60	
Met Val Ile Pro Gly Gly Ile Asp Val Asn Thr Tyr Leu Gln Lys Pro			
65	70	75	80
Ser Gln Gly Met Thr Ala Ala Asp Asp Phe Phe Gln Gly Thr Arg Ala			
85	90	95	
Ala Leu Val Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu			
100	105	110	
Pro Gly Ser Ser Leu Leu Thr Ser Phe Glu Lys Trp His Glu Ala Ala			
115	120	125	
Asp Thr Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Thr Ser			
130	135	140	
Trp Tyr Asp Gly Val Arg Glu Glu Leu Glu Val Leu Val Gln Asp Lys			
145	150	155	160
Gly Val Asn Ser Phe Gln Val Tyr Met Ala Tyr Lys Asp Val Tyr Gln			
165	170	175	
Met Ser Asp Ser Gln Leu Tyr Glu Ala Phe Thr Phe Leu Lys Gly Leu			

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Gly	Ala	Val	Ile	Leu	Val	His	Ala	Glu	Asn	Gly	Asp	Leu	Ile	Ala	Gln
180						185						190			
195						195	200					205			
Glu	Gln	Lys	Arg	Ile	Leu	Glu	Met	Gly	Ile	Thr	Gly	Pro	Glu	Gly	His
210						210	215					220			
Ala	Leu	Ser	Arg	Pro	Glu	Glu	Leu	Glu	Ala	Glu	Ala	Val	Phe	Arg	Ala
225					225	230			225	235			240		
Ile	Thr	Ile	Ala	Gly	Arg	Ile	Asn	Cys	Pro	Val	Tyr	Ile	Thr	Lys	Val
						245			250			255			
Met	Ser	Lys	Ser	Ala	Ala	Asp	Ile	Ile	Ala	Leu	Ala	Arg	Lys	Lys	Gly
						260		265				270			
Pro	Leu	Val	Phe	Gly	Glu	Pro	Ile	Ala	Ala	Ser	Leu	Gly	Thr	Asp	Gly
						275		280			285				
Thr	His	Tyr	Trp	Ser	Lys	Asn	Trp	Ala	Lys	Ala	Ala	Ala	Phe	Val	Thr
						290		295			300				
Ser	Pro	Pro	Leu	Ser	Pro	Asp	Pro	Thr	Thr	Pro	Asp	Tyr	Leu	Thr	Ser
						305		310		315			320		
Leu	Leu	Ala	Cys	Gly	Asp	Leu	Gln	Val	Thr	Gly	Ser	Gly	His	Cys	Pro
						325		330		330			335		
Tyr	Ser	Thr	Ala	Gln	Lys	Ala	Val	Gly	Lys	Asp	Asn	Phe	Thr	Leu	Ile
						340		345				350			
Pro	Glu	Gly	Val	Asn	Gly	Ile	Glu	Glu	Arg	Met	Thr	Val	Val	Trp	Asp
						355		360			365				
Lys	Ala	Val	Ala	Thr	Gly	Lys	Met	Asp	Glu	Asn	Gln	Phe	Val	Ala	Val
						370		375			380				
Thr	Ser	Thr	Asn	Ala	Ala	Lys	Ile	Phe	Asn	Leu	Tyr	Pro	Arg	Lys	Gly
						385		390		395			400		
Arg	Ile	Ala	Val	Gly	Ser	Asp	Ala	Asp	Val	Val	Ile	Trp	Asp	Pro	Asp
						405		410				415			
Lys	Leu	Lys	Thr	Ile	Thr	Ala	Lys	Ser	His	Lys	Ser	Ala	Val	Glu	Tyr
						420		425				430			
Asn	Ile	Phe	Glu	Gly	Met	Glu	Cys	His	Gly	Ser	Pro	Leu	Val	Val	Ile
						435		440			445				
Ser	Gln	Gly	Lys	Ile	Val	Phe	Glu	Asp	Gly	Asn	Ile	Asn	Val	Asn	Lys
						450		455			460				
Gly	Met	Gly	Arg	Phe	Ile	Pro	Arg	Lys	Ala	Phe	Pro	Glu	His	Leu	Tyr
						465		470		475			480		
Gln	Arg	Val	Lys	Ile	Arg	Asn	Lys	Val	Phe	Gly	Leu	Gln	Gly	Val	Ser
						485		490			495				
Arg	Gly	Met	Tyr	Asp	Gly	Pro	Val	Tyr	Glu	Val	Pro	Ala	Thr	Pro	Lys
						500		505				510			
Tyr	Ala	Thr	Pro	Ala	Pro	Ser	Ala	Lys	Ser	Ser	Pro	Ser	Lys	His	Gln
						515		520			525				
Pro	Pro	Pro	Ile	Arg	Asn	Leu	His	Gln	Ser	Asn	Phe	Ser	Leu	Ser	Gly
						530		535			540				
Ala	Gln	Ile	Asp	Asp	Asn	Asn	Pro	Arg	Arg	Thr	Gly	His	Arg	Ile	Val
						545		550		555			560		
Ala	Pro	Pro	Gly	Gly	Arg	Ser	Asn	Ile	Thr	Ser	Leu	Gly			
						565		570							

<210> 71
<211> 351
<212> PRT
<213> Homo sapiens

<400> 71
Met Gln Arg Ala Leu Pro Gly Ala Arg Gln His Leu Gly Ala Ile Leu
1 5 10 15
Ala Ser Ala Ser Val Val Lys Ala Leu Cys Ala Ala Val Leu Phe
20 25 30
Leu Tyr Leu Leu Ser Phe Ala Val Asp Thr Gly Cys Leu Ala Val Thr
35 40 45
Pro Gly Tyr Leu Phe Pro Pro Asn Phe Trp Ile Trp Thr Leu Ala Thr

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50	55	60													
His	Gly	Leu	Met	Glu	Gln	His	Val	Trp	Asp	Val	Ala	Ile	Ser	Leu	Thr
65		70				75									80
Thr	Val	Val	Val	Ala	Gly	Arg	Leu	Leu	Glu	Pro	Leu	Trp	Gly	Ala	Leu
						85								95	
Glu	Leu	Leu	Ile	Phe	Phe	Ser	Val	Val	Asn	Val	Ser	Val	Gly	Leu	Leu
			100				105						110		
Gly	Ala	Phe	Ala	Tyr	Leu	Leu	Thr	Tyr	Met	Ala	Ser	Phe	Asn	Leu	Val
			115				120					125			
Tyr	Leu	Phe	Thr	Val	Arg	Ile	His	Gly	Ala	Leu	Gly	Phe	Leu	Gly	Gly
			130				135				140				
Val	Leu	Val	Ala	Leu	Lys	Gln	Thr	Met	Gly	Asp	Cys	Val	Val	Leu	Arg
145					150				155					160	
Val	Pro	Gln	Val	Arg	Val	Ser	Val	Met	Pro	Met	Leu	Leu	Ala	Leu	
					165			170					175		
Leu	Leu	Leu	Leu	Arg	Leu	Ala	Thr	Leu	Leu	Gln	Ser	Pro	Ala	Leu	Ala
				180				185					190		
Ser	Tyr	Gly	Phe	Gly	Leu	Leu	Ser	Ser	Trp	Val	Tyr	Leu	Arg	Phe	Tyr
				195				200			205				
Gln	Arg	His	Ser	Arg	Gly	Arg	Gly	Asp	Met	Ala	Asp	His	Phe	Ala	Phe
				210			215			220					
Ala	Thr	Phe	Phe	Pro	Glu	Ile	Leu	Gln	Pro	Val	Val	Gly	Leu	Leu	Ala
				225			230			235				240	
Asn	Leu	Val	His	Ser	Leu	Leu	Val	Lys	Val	Lys	Ile	Cys	Gln	Lys	Thr
				245				250			255				
Val	Lys	Arg	Tyr	Asp	Val	Gly	Ala	Pro	Ser	Ser	Ile	Thr	Ile	Ser	Leu
				260			265				270				
Pro	Gly	Thr	Asp	Pro	Gln	Asp	Ala	Glu	Arg	Arg	Arg	Gln	Leu	Ala	Leu
				275			280				285				
Lys	Ala	Leu	Asn	Glu	Arg	Leu	Lys	Arg	Val	Glu	Asp	Gln	Ser	Ile	Trp
				290			295			300					
Pro	Ser	Met	Asp	Asp	Asp	Glu	Glu	Glu	Ser	Gly	Ala	Lys	Val	Asp	Ser
				305			310			315				320	
Pro	Leu	Pro	Ser	Asp	Lys	Ala	Pro	Thr	Pro	Pro	Gly	Lys	Gly	Ala	Ala
				325				330			335				
Pro	Glu	Ser	Ser	Leu	Ile	Thr	Phe	Glu	Ala	Ala	Pro	Pro	Thr	Leu	
				340			345						350		

<210> 72

<211> 745

<212> PRT

<213> Homo sapiens

<400> 72

Met	Pro	Val	Leu	Ser	Arg	Pro	Arg	Pro	Trp	Arg	Gly	Asn	Thr	Leu	Lys	
1		5			10		15									
Arg	Thr	Ala	Val	Leu	Leu	Ala	Leu	Ala	Tyr	Gly	Ala	His	Lys	Val		
					20		25					30				
Tyr	Pro	Leu	Val	Arg	Gln	Cys	Leu	Ala	Pro	Ala	Arg	Gly	Leu	Gln	Ala	
					35		40				45					
Pro	Ala	Gly	Glu	Pro	Thr	Gln	Glu	Ala	Ser	Gly	Val	Ala	Ala	Ala	Lys	
				50		55				60						
Ala	Gly	Met	Asn	Arg	Val	Phe	Leu	Gln	Arg	Leu	Leu	Trp	Leu	Leu	Arg	
				65		70			75				80			
Leu	Leu	Phe	Pro	Arg	Val	Leu	Cys	Arg	Glu	Thr	Gly	Leu	Leu	Ala	Leu	
					85		90			95						
His	Ser	Ala	Ala	Leu	Val	Ser	Arg	Thr	Phe	Leu	Ser	Val	Tyr	Val	Ala	
					100		105			110						
Arg	Leu	Asp	Gly	Arg	Leu	Ala	Arg	Cys	Ile	Val	Arg	Lys	Asp	Pro	Arg	
				115		120			125							
Ala	Phe	Gly	Trp	Gln	Leu	Leu	Gln	Trp	Leu	Leu	Ile	Ala	Leu	Pro	Ala	
				130		135			140							
Thr	Phe	Val	Asn	Ser	Ala	Ile	Arg	Tyr	Leu	Glu	Gly	Gln	Leu	Ala	Leu	

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145	150	155	160												
Ser	Phe	Arg	Ser	Arg	Leu	Val	Ala	His	Ala	Tyr	Arg	Leu	Tyr	Phe	Ser
					165			170			175				
Gln	Gln	Thr	Tyr	Tyr	Arg	Val	Ser	Asn	Met	Asp	Gly	Arg	Leu	Arg	Asn
					180			185			190				
Pro	Asp	Gln	Ser	Leu	Thr	Glu	Asp	Val	Val	Ala	Phe	Ala	Ala	Ser	Val
					195			200			205				
Ala	His	Leu	Tyr	Ser	Asn	Leu	Thr	Lys	Pro	Leu	Leu	Asp	Val	Ala	Val
					210			215			220				
Thr	Ser	Tyr	Thr	Leu	Leu	Arg	Ala	Ala	Arg	Ser	Arg	Gly	Ala	Gly	Thr
					225			230			235			240	
Ala	Trp	Pro	Ser	Ala	Ile	Ala	Gly	Leu	Val	Val	Phe	Leu	Thr	Ala	Asn
					245			250			255				
Val	Leu	Arg	Ala	Phe	Ser	Pro	Lys	Phe	Gly	Glu	Leu	Val	Ala	Glu	Glu
					260			265			270				
Ala	Arg	Arg	Lys	Gly	Glu	Leu	Arg	Tyr	Met	His	Ser	Arg	Val	Val	Ala
					275			280			285				
Asn	Ser	Glu	Glu	Ile	Ala	Phe	Tyr	Gly	Gly	His	Glu	Val	Glu	Leu	Ala
					290			295			300				
Leu	Leu	Gln	Arg	Ser	Tyr	Gln	Asp	Leu	Ala	Ser	Gln	Ile	Asn	Leu	Ile
					305			310			315			320	
Leu	Leu	Glu	Arg	Leu	Trp	Tyr	Val	Met	Leu	Glu	Gln	Phe	Leu	Met	Lys
					325			330			335				
Tyr	Val	Trp	Ser	Ala	Ser	Gly	Leu	Leu	Met	Val	Ala	Val	Pro	Ile	Ile
					340			345			350				
Thr	Ala	Thr	Gly	Tyr	Ser	Glu	Ser	Asp	Ala	Glu	Ala	Val	Lys	Lys	Ala
					355			360			365				
Ala	Leu	Glu	Lys	Glu	Glu	Glu	Leu	Val	Ser	Glu	Arg	Thr	Glu	Ala	
					370			375			380				
Phe	Thr	Ile	Ala	Arg	Asn	Leu	Leu	Thr	Ala	Ala	Asp	Ala	Ile	Glu	
					385			390			395			400	
Arg	Ile	Met	Ser	Ser	Tyr	Lys	Glu	Val	Thr	Glu	Leu	Ala	Gly	Tyr	Thr
					405			410			415				
Ala	Arg	Val	His	Glu	Met	Phe	Gln	Val	Phe	Glu	Asp	Val	Gln	Arg	Cys
					420			425			430				
His	Phe	Lys	Arg	Pro	Arg	Glu	Leu	Glu	Asp	Ala	Gln	Ala	Gly	Ser	Gly
					435			440			445				
Thr	Ile	Gly	Arg	Ser	Gly	Val	Arg	Val	Glu	Gly	Pro	Leu	Lys	Ile	Arg
					450			455			460				
Gly	Gln	Val	Val	Asp	Val	Glu	Gln	Gly	Ile	Ile	Cys	Glu	Asn	Ile	Pro
					465			470			475			480	
Ile	Val	Thr	Pro	Ser	Gly	Glu	Val	Val	Val	Ala	Ser	Leu	Asn	Ile	Arg
					485			490			495				
Val	Glu	Glu	Gly	Met	His	Leu	Leu	Ile	Thr	Gly	Pro	Asn	Gly	Cys	Gly
					500			505			510				
Lys	Ser	Ser	Leu	Phe	Arg	Ile	Leu	Gly	Gly	Leu	Trp	Pro	Thr	Tyr	Gly
					515			520			525				
Gly	Val	Leu	Tyr	Lys	Pro	Pro	Pro	Gln	Arg	Met	Phe	Tyr	Ile	Pro	Gln
					530			535			540				
Arg	Pro	Tyr	Met	Ser	Val	Gly	Ser	Leu	Arg	Asp	Gln	val	Ile	Tyr	Pro
					545			550			555			560	
Asp	Ser	Val	Glu	Asp	Met	Gln	Arg	Lys	Gly	Tyr	Ser	Glu	Gln	Asp	Leu
					565			570			575				
Glu	Ala	Ile	Leu	Asp	Val	Val	His	Leu	His	His	Ile	Leu	Gln	Arg	Glu
					580			585			590				
Gly	Gly	Trp	Glu	Ala	Met	Cys	Asp	Trp	Lys	Asp	Val	Leu	Ser	Gly	Gly
					595			600			605				
Glu	Lys	Gln	Arg	Ile	Gly	Met	Ala	Arg	Met	Phe	Tyr	His	Arg	Pro	Lys
					610			615			620				
Tyr	Ala	Leu	Leu	Asp	Glu	Cys	Thr	Ser	Ala	Val	Ser	Ile	Asp	Val	Glu
					625			630			635			640	
Gly	Lys	Ile	Phe	Gln	Ala	Ala	Lys	Asp	Ala	Gly	Ile	Ala	Leu	Leu	Ser
					645			650			655				

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Ile Thr His Arg Pro Ser Leu Trp Lys Tyr His Thr His Leu Leu Gln
 660 665 670
 Phe Asp Gly Glu Gly Gly Trp Lys Phe Glu Lys Leu Asp Ser Ala Ala
 675 680 685
 Arg Leu Ser Leu Thr Glu Glu Lys Gln Arg Leu Glu Gln Gln Leu Ala
 690 695 700
 Gly Ile Pro Lys Met Gln Arg Arg Leu Gln Glu Leu Cys Gln Ile Leu
 705 710 715 720
 Gly Glu Ala Val Ala Pro Ala His Val Pro Ala Pro Ser Pro Gln Gly
 725 730 735
 Pro Gly Gly Leu Gln Gly Ala Ser Thr
 740 745

<210> 73

<211> 334

<212> PRT

<213> Homo sapiens

<400> 73

Met Asp Leu Asp Val Val Asn Met Phe Val Ile Ala Gly Gly Thr Leu
 1 5 10 15
 Ala Ile Pro Ile Leu Ala Phe Val Ala Ser Phe Leu Leu Trp Pro Ser
 20 25 30
 Ala Leu Ile Arg Ile Tyr Tyr Trp Tyr Trp Arg Arg Thr Leu Gly Met
 35 40 45
 Gln Val Arg Tyr Val His His Glu Asp Tyr Gln Phe Cys Tyr Ser Phe
 50 55 60
 Arg Gly Arg Pro Gly His Lys Pro Ser Ile Leu Met Leu His Gly Phe
 65 70 75 80
 Ser Ala His Lys Asp Met Trp Leu Ser Val Val Lys Phe Leu Pro Lys
 85 90 95
 Asn Leu His Leu Val Cys Val Asp Met Pro Gly His Glu Gly Thr Thr
 100 105 110
 Arg Ser Ser Leu Asp Asp Leu Ser Ile Asp Gly Gln Val Lys Arg Ile
 115 120 125
 His Gln Phe Val Glu Cys Leu Lys Leu Asn Lys Lys Pro Phe His Leu
 130 135 140
 Val Gly Thr Ser Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr
 145 150 155 160
 Tyr Pro Ser Asp Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu
 165 170 175
 Gln Tyr Ser Thr Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln
 180 185 190
 Gly Ser Ala Ala Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu
 195 200 205
 Glu Met Ser Glu Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val
 210 215 220
 Pro Gln Gln Ile Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn
 225 230 235 240
 Asn Phe Tyr Arg Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg
 245 250 255
 Tyr Ser Leu His Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile
 260 265 270
 Ile Trp Gly Lys Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met
 275 280 285
 Leu Ala Lys Ser Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys
 290 295 300
 Gly His Ser Val Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile
 305 310 315 320
 Ile Asp Phe Leu Ala Ser Val His Asn Thr Asp Asn Asn Lys
 325 330

<210> 74

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<211> 559
 <212> PRT
 <213> Homo sapiens

<400> 74

Ser Asp Arg Leu Leu Ile Arg Gly Gly Arg Ile Val Asn Asp Asp Gln
 1 5 10 15

Ser Phe Tyr Ala Asp Val His Val Glu Asp Gly Leu Ile Lys Gln Ile
 20 25 30

Gly Glu Asn Leu Ile Val Pro Gly Gly Ile Lys Thr Ile Asp Ala His
 35 40 45

Gly Leu Met Val Leu Pro Gly Gly Val Asp Val His Thr Arg Leu Gln
 50 55 60

Met Pro Val Leu Gly Met Thr Pro Ala Asp Asp Phe Cys Gln Gly Thr
 65 70 75 80

Lys Ala Ala Leu Ala Gly Gly Thr Thr Met Ile Leu Asp His Val Phe
 85 90 95

Pro Asp Thr Gly Val Ser Leu Leu Ala Ala Tyr Glu Gln Trp Arg Glu
 100 105 110

Arg Ala Asp Ser Ala Ala Cys Cys Asp Tyr Ser Leu His Val Asp Ile
 115 120 125

Thr Arg Trp His Glu Ser Ile Lys Glu Glu Leu Glu Ala Leu Val Lys
 130 135 140

Glu Lys Gly Val Asn Ser Phe Leu Val Phe Met Ala Tyr Lys Asp Arg
 145 150 155 160

Cys Gln Cys Ser Asp Ser Gln Met Tyr Glu Ile Phe Ser Ile Ile Arg
 165 170 175

Asp Leu Gly Ala Leu Ala Gln Val His Ala Glu Asn Gly Asp Ile Val
 180 185 190

Glu Glu Glu Gln Lys Arg Leu Leu Glu Leu Gly Ile Thr Gly Pro Glu
 195 200 205

Gly His Val Leu Ser His Pro Glu Glu Val Glu Ala Glu Ala Val Tyr
 210 215 220

Arg Ala Val Thr Ile Ala Lys Gln Ala Asn Cys Pro Leu Tyr Val Thr
 225 230 235 240

Lys Val Met Ser Lys Gly Ala Ala Asp Ala Ile Ala Gln Ala Lys Arg
 245 250 255

Arg Gly Val Val Val Phe Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr
 260 265 270

Asp Gly Ser His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe
 275 280 285

Val Thr Ser Pro Pro Val Asn Pro Asp Pro Thr Thr Ala Asp His Leu
 290 295 300

Thr Cys Leu Leu Ser Ser Gly Asp Leu Gln Val Thr Gly Ser Ala His
 305 310 315 320

Cys Thr Phe Thr Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Ala
 325 330 335

Leu Ile Pro Glu Gly Thr Asn Gly Ile Glu Glu Arg Met Ser Met Val
 340 345 350

Trp Glu Lys Cys Val Ala Ser Gly Lys Met Asp Glu Asn Glu Phe Val
 355 360 365

Ala Val Thr Ser Thr Asn Ala Ala Lys Ile Phe Asn Phe Tyr Pro Arg
 370 375 380

Lys Gly Arg Val Ala Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asn
 385 390 395 400

Pro Lys Ala Thr Lys Ile Ile Ser Ala Lys Thr His Asn Leu Asn Val
 405 410 415

Glu Tyr Asn Ile Phe Glu Gly Val Glu Cys Arg Gly Ala Pro Ala Val
 420 425 430

Val Ile Ser Gln Gly Arg Val Ala Leu Glu Asp Gly Lys Met Phe Val
 435 440 445

Thr Pro Gly Ala Gly Arg Phe Val Pro Arg Lys Thr Phe Pro Asp Phe
 450 455 460

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Val Tyr Lys Arg Ile Lys Ala Arg Asn Arg Leu Ala Glu Ile His Gly
 465 470 475 480
 Val Pro Arg Gly Leu Tyr Asp Gly Pro Val His Glu Val Met Val Pro
 485 490 495
 Ala Lys Pro Gly Ser Gly Ala Pro Ala Arg Ala Ser Cys Pro Gly Lys
 500 505 510
 Ile Ser Val Pro Pro Val Arg Asn Leu His Gln Ser Gly Phe Ser Leu
 515 520 525
 Ser Gly Ser Gln Ala Asp Asp His Ile Ala Arg Arg Thr Ala Gln Lys
 530 535 540
 Ile Met Ala Pro Pro Gly Gly Arg Ser Asn Ile Thr Ser Leu Ser
 545 550 555

<210> 75

<211> 743

<212> PRT

<213> Homo sapiens

<400> 75

Met Ala Arg Arg Ser Val Leu Tyr Phe Ile Leu Leu Asn Ala Leu Ile
 1 5 10 15
 Asn Lys Gly Gln Ala Cys Phe Cys Asp His Tyr Ala Trp Thr Gln Trp
 20 25 30
 Thr Ser Cys Ser Lys Thr Cys Asn Ser Gly Thr Gln Ser Arg His Arg
 35 40 45
 Gln Ile Val Val Asp Lys Tyr Tyr Gln Glu Asn Phe Cys Glu Gln Ile
 50 55 60
 Cys Ser Lys Gln Glu Thr Arg Glu Cys Asn Trp Gln Arg Cys Pro Ile
 65 70 75 80
 Asn Cys Leu Leu Gly Asp Phe Gly Pro Trp Ser Asp Cys Asp Pro Cys
 85 90 95
 Ile Glu Lys Gln Gly Thr Ser Asn Phe His Tyr Leu Asn His Leu Phe
 100 105 110
 Thr Ser Phe Phe His Leu Asp Ser Ser Phe Ile Arg Ile His Lys Val
 115 120 125
 Met Lys Val Leu Asn Phe Thr Thr Lys Ala Lys Asp Leu His Leu Ser
 130 135 140
 Asp Val Phe Leu Lys Ala Leu Asn His Leu Pro Leu Glu Tyr Asn Ser
 145 150 155 160
 Ala Leu Tyr Ser Arg Ile Phe Asp Asp Phe Gly Thr His Tyr Phe Thr
 165 170 175
 Ser Gly Ser Leu Gly Gly Val Tyr Asp Leu Leu Tyr Gln Phe Ser Ser
 180 185 190
 Glu Glu Leu Lys Asn Ser Gly Leu Thr Glu Glu Ala Lys His Cys
 195 200 205
 Val Arg Ile Glu Thr Lys Lys Arg Val Leu Phe Ala Lys Lys Thr Lys
 210 215 220
 Val Glu His Arg Cys Thr Thr Asn Lys Leu Ser Glu Lys His Glu Gly
 225 230 235 240
 Ser Phe Ile Gln Gly Ala Glu Lys Ser Ile Ser Leu Ile Arg Gly Gly
 245 250 255
 Arg Ser Glu Tyr Gly Ala Ala Leu Ala Trp Glu Lys Gly Ser Ser Gly
 260 265 270
 Leu Glu Glu Lys Thr Phe Ser Glu Trp Leu Glu Ser Val Lys Glu Asn
 275 280 285
 Pro Ala Val Ile Asp Phe Glu Leu Ala Pro Ile Val Asp Leu Val Arg
 290 295 300
 Asn Ile Pro Cys Ala Val Thr Lys Arg Asn Asn Leu Arg Lys Ala Leu
 305 310 315 320
 Gln Glu Tyr Ala Ala Lys Phe Asp Pro Cys Gln Cys Ala Pro Cys Pro
 325 330 335
 Asn Asn Gly Arg Pro Thr Leu Ser Gly Thr Glu Cys Leu Cys Val Cys
 340 345 350

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Gln Ser Gly Thr Tyr Gly Glu Asn Cys Glu Lys Gln Ser Pro Asp Tyr
 355 360 365
 Lys Ser Asn Ala Val Asp Gly Gln Trp Gly Cys Trp Ser Ser Trp Ser
 370 375 380
 Thr Cys Asp Ala Thr Tyr Lys Arg Ser Arg Thr Arg Glu Cys Asn Asn
 385 390 395 400
 Pro Ala Pro Gln Arg Gly Gly Lys Arg Cys Glu Gly Glu Lys Arg Gln
 405 410 415
 Glu Glu Asp Cys Thr Phe Ser Ile Met Glu Asn Asn Gly Gln Pro Cys
 420 425 430
 Ile Asn Asp Asp Glu Glu Met Lys Glu Val Asp Leu Pro Glu Ile Glu
 435 440 445
 Ala Asp Ser Gly Cys Pro Gln Pro Val Pro Pro Glu Asn Gly Phe Ile
 450 455 460
 Arg Asn Glu Lys Gln Leu Tyr Leu Val Gly Glu Asp Val Glu Ile Ser
 465 470 475 480
 Cys Leu Thr Gly Phe Glu Thr Val Gly Tyr Gln Tyr Phe Arg Cys Leu
 485 490 495
 Pro Asp Gly Thr Trp Arg Gln Gly Asp Val Glu Cys Gln Arg Thr Glu
 500 505 510
 Cys Ile Lys Pro Val Val Gln Glu Val Leu Thr Ile Thr Pro Phe Gln
 515 520 525
 Arg Leu Tyr Arg Ile Gly Glu Ser Ile Glu Leu Thr Cys Pro Lys Gly
 530 535 540
 Phe Val Val Ala Gly Pro Ser Arg Tyr Thr Cys Gln Gly Asn Ser Trp
 545 550 555 560
 Thr Pro Pro Ile Ser Asn Ser Leu Thr Cys Glu Lys Asp Thr Leu Thr
 565 570 575
 Lys Leu Lys Gly His Cys Gln Leu Gly Gln Lys Gln Ser Gly Ser Glu
 580 585 590
 Cys Ile Cys Met Ser Pro Glu Glu Asp Cys Ser His His Ser Glu Asp
 595 600 605
 Leu Cys Val Phe Asp Thr Asp Ser Asn Asp Tyr Phe Thr Ser Pro Ala
 610 615 620
 Cys Lys Phe Leu Ala Glu Lys Cys Leu Asn Asn Gln Gln Leu His Phe
 625 630 635 640
 Leu His Ile Gly Ser Cys Gln Asp Gly Arg Gln Leu Glu Trp Gly Leu
 645 650 655
 Glu Arg Thr Arg Leu Ser Ser Asn Ser Thr Lys Lys Glu Ser Cys Gly
 660 665 670
 Tyr Asp Thr Cys Tyr Asp Trp Glu Lys Cys Ser Ala Ser Thr Ser Lys
 675 680 685
 Cys Val Cys Leu Leu Pro Pro Gln Cys Phe Lys Gly Gly Asn Gln Leu
 690 695 700
 Tyr Cys Val Lys Met Gly Ser Ser Thr Ser Glu Lys Thr Leu Asn Ile
 705 710 715 720
 Cys Glu Val Gly Thr Ile Arg Cys Ala Asn Arg Lys Met Glu Ile Leu
 725 730 735
 His Pro Gly Lys Cys Leu Ala
 740

<210> 76

<211> 321

<212> PRT

<213> Homo sapiens

<400> 76

Met Glu Arg Lys Asn Gln Thr Ala Ile Thr Glu Phe Ile Ile Leu Gly
 1 5 10 15
 Phe Ser Asn Leu Asn Glu Leu Gln Phe Leu Leu Phe Thr Ile Phe Phe
 20 25 30
 Leu Thr Tyr Phe Cys Thr Leu Gly Gly Asn Ile Leu Ile Ile Leu Thr
 35 40 45

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Thr Val Thr Asp Pro His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly
 50 55 60
 Asn Leu Ala Phe Ile Asp Ile Cys Tyr Thr Thr Ser Asn Val Pro Gln
 65 70 75 80
 Met Met Val His Leu Leu Ser Lys Lys Ser Ile Ser Tyr Val Gly
 85 90 95
 Cys Val Val Gln Leu Phe Ala Phe Val Phe Phe Val Gly Ser Glu Cys
 100 105 110
 Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Asn
 115 120 125
 Pro Leu Arg Tyr Ser Val Ile Leu Ser Lys Val Leu Cys Asn Gln Leu
 130 135 140
 Ala Ala Ser Cys Trp Ala Ala Gly Phe Leu Asn Ser Val Val His Thr
 145 150 155 160
 Val Leu Thr Phe Cys Leu Pro Phe Cys Gly Asn Asn Gln Ile Asn Tyr
 165 170 175
 Phe Phe Cys Asp Ile Pro Pro Leu Leu Ile Leu Ser Cys Gly Asn Thr
 180 185 190
 Ser Val Asn Glu Leu Ala Leu Leu Ser Thr Gly Val Phe Ile Gly Trp
 195 200 205
 Thr Pro Phe Leu Cys Ile Val Leu Ser Tyr Ile Cys Ile Ile Ser Thr
 210 215 220
 Ile Leu Arg Ile Gln Ser Ser Glu Gly Arg Arg Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Ala Ile Val Phe Leu Phe Tyr Gly Ser Ala Ile
 245 250 255
 Phe Thr Tyr Val Arg Pro Ile Ser Thr Tyr Ser Leu Lys Lys Asp Arg
 260 265 270
 Leu Val Ser Val Leu Tyr Ser Val Val Thr Pro Met Leu Asn Pro Ile
 275 280 285
 Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Val Lys Thr Ile
 290 295 300
 Gly Ser Lys Trp Gln Pro Pro Ile Ser Ser Leu Asp Ser Lys Leu Thr
 305 310 315 320
 Tyr

<210> 77
 <211> 297
 <212> PRT
 <213> Homo sapiens

<400> 77

Met Asp Pro Gly Lys Asp Lys Glu Gly Val Pro Gln Pro Ser Gly Pro
 1 5 10 15
 Pro Ala Arg Lys Lys Phe Val Ile Pro Leu Asp Glu Asp Glu Val Pro
 20 25 30
 Pro Gly Val Ala Lys Pro Leu Phe Arg Ser Thr Gln Ser Leu Pro Thr
 35 40 45
 Val Asp Thr Ser Ala Gln Ala Ala Pro Gln Thr Tyr Ala Glu Tyr Ala
 50 55 60
 Ile Ser Gln Pro Leu Glu Gly Ala Gly Ala Thr Cys Pro Thr Gly Ser
 65 70 75 80
 Glu Pro Leu Ala Gly Glu Thr Pro Asn Gln Ala Leu Lys Pro Gly Ala
 85 90 95
 Lys Ser Asn Ser Ile Ile Val Ser Pro Arg Gln Arg Gly Asn Pro Val
 100 105 110
 Leu Lys Phe Val Arg Asn Val Pro Trp Glu Phe Gly Asp Val Ile Pro
 115 120 125
 Asp Tyr Val Leu Gly Gln Ser Thr Cys Ala Leu Phe Leu Ser Leu Arg
 130 135 140
 Tyr His Asn Leu His Pro Asp Tyr Ile His Gly Arg Leu Gln Ser Leu
 145 150 155 160

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Gly Lys Asn Phe Ala Leu Arg Val Leu Leu Val Gln Val Asp Val Lys
 165 170 175
 Asp Pro Gln Gln Ala Leu Lys Glu Leu Ala Lys Met Cys Ile Leu Ala
 180 185 190
 Asp Cys Thr Leu Ile Leu Ala Trp Ser Pro Glu Glu Ala Gly Arg Tyr
 195 200 205
 Leu Glu Thr Tyr Lys Ala Tyr Glu Gln Lys Pro Ala Asp Leu Leu Met
 210 215 220
 Glu Lys Leu Glu Gln Asp Phe Val Ser Arg Val Thr Glu Cys Leu Thr
 225 230 235 240
 Thr Val Lys Ser Val Asn Lys Thr Asp Ser Gln Thr Leu Leu Thr Thr
 245 250 255
 Phe Gly Ser Leu Glu Gln Leu Ile Ala Ala Ser Arg Glu Asp Leu Ala
 260 265 270
 Leu Cys Pro Gly Leu Gly Pro Gln Lys Ala Arg Arg Leu Phe Asp Val
 275 280 285
 Leu His Glu Pro Phe Leu Lys Val Pro
 290 295

<210> 78

<211> 579

<212> PRT

<213> Homo sapiens

<400> 78

Met Leu Ala Asn Ser Ala Ser Val Arg Ile Leu Ile Lys Gly Gly Lys
 1 5 10 15
 Val Val Asn Asp Asp Cys Thr His Glu Ala Asp Val Tyr Ile Glu Asn
 20 25 30
 Gly Ile Ile Gln Gln Val Gly Arg Glu Leu Met Ile Pro Gly Gly Ala
 35 40 45
 Lys Val Ile Asp Ala Thr Gly Lys Leu Val Ile Pro Gly Gly Ile Asp
 50 55 60
 Thr Ser Thr His Phe His Gln Thr Phe Met Asn Ala Thr Cys Val Asp
 65 70 75 80
 Asp Phe Tyr His Gly Thr Lys Ala Ala Leu Val Gly Gly Thr Thr Met
 85 90 95
 Ile Ile Gly His Val Leu Pro Asp Lys Glu Thr Ser Leu Val Asp Ala
 100 105 110
 Tyr Glu Lys Cys Arg Gly Leu Ala Asp Pro Lys Val Cys Cys Asp Tyr
 115 120 125
 Ala Leu His Val Gly Ile Thr Trp Trp Ala Pro Lys Val Lys Ala Glu
 130 135 140
 Met Glu Thr Leu Val Arg Glu Lys Gly Val Asn Ser Phe Gln Met Phe
 145 150 155 160
 Met Thr Tyr Lys Asp Leu Asn Trp Asn Met Leu Arg Asp Ser Glu Leu
 165 170 175
 Tyr Gln Val Leu His Ala Cys Lys Asp Ile Gly Ala Ile Ala Arg Val
 180 185 190
 His Ala Glu Asn Gly Glu Leu Val Ala Glu Ala Ser Leu Gln Pro Arg
 195 200 205
 Ile Leu Asp Gly Gly Thr Pro Gly Ala Lys Glu Ala Leu Asp Leu Gly
 210 215 220
 Ile Thr Gly Pro Glu Gly Ile Glu Ile Ser Arg Pro Glu Glu Leu Glu
 225 230 235 240
 Ala Glu Ala Thr His Arg Val Ile Thr Ile Ala Asn Arg Thr His Cys
 245 250 255
 Pro Ile Tyr Leu Val Asn Val Ser Ser Ile Ser Ala Gly Asp Val Ile
 260 265 270
 Ala Ala Ala Lys Met Gln Gly Lys Val Val Leu Ala Glu Thr Thr Thr
 275 280 285
 Ala His Ala Thr Leu Thr Gly Leu His Tyr Tyr His Gln Asp Trp Ser
 290 295 300

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His Ala Ala Ala Tyr Val Thr Val Pro Pro Leu Arg Leu Asp Thr Asn
 305 310 315 320
 Thr Ser Thr Tyr Leu Met Ser Leu Leu Ala Asn Asp Thr Leu Asn Ile
 325 330 335
 Val Ala Ser Asp His Arg Pro Phe Thr Thr Lys Gln Lys Ala Met Gly
 340 345 350
 Lys Glu Asp Phe Thr Lys Ile Pro His Gly Val Ser Gly Val Gln Asp
 355 360 365
 Arg Met Ser Val Ile Trp Glu Arg Gly Val Val Gly Gly Lys Met Asp
 370 375 380
 Glu Asn Arg Phe Val Ala Val Thr Ser Ser Asn Ala Ala Lys Leu Leu
 385 390 395 400
 Asn Leu Tyr Pro Arg Lys Gly Arg Ile Ile Pro Gly Ala Asp Ala Asp
 405 410 415
 Val Val Val Trp Asp Pro Glu Ala Thr Lys Thr Ile Ser Ala Ser Thr
 420 425 430
 Gln Val Gln Gly Gly Asp Phe Asn Leu Tyr Glu Asn Met Arg Cys His
 435 440 445
 Gly Val Pro Leu Val Thr Ile Ser Arg Gly Arg Val Val Tyr Glu Asn
 450 455 460
 Gly Val Phe Met Cys Ala Glu Gly Thr Gly Lys Phe Cys Pro Leu Arg
 465 470 475 480
 Ser Phe Pro Asp Thr Val Tyr Lys Lys Leu Val Gln Arg Glu Lys Thr
 485 490 495
 Leu Lys Val Arg Gly Val Asp Arg Thr Pro Tyr Leu Gly Asp Val Ala
 500 505 510
 Val Val Val His Pro Gly Lys Lys Glu Met Gly Thr Pro Leu Ala Asp
 515 520 525
 Thr Pro Thr Arg Pro Val Thr Arg His Gly Gly Met Arg Asp Leu His
 530 535 540
 Glu Ser Ser Phe Ser Leu Ser Gly Ser Gln Ile Asp Asp His Val Pro
 545 550 555 560
 Lys Arg Ala Ser Ala Arg Ile Leu Ala Pro Pro Gly Gly Arg Ser Ser
 565 570 575
 Gly Ile Trp

<210> 79
 <211> 366
 <212> PRT
 <213> Homo sapiens

<400> 79

Val Thr Ala Val Ala Gln Gln Asn Gln Gly Glu Val Pro Glu Pro Gln
 1 5 10 15
 Asp Met Lys Val Ala Glu Val Leu Phe Asp Ala Ala Asp Ala Asn Ala
 20 25 30
 Ile Glu Glu Val Asn Leu Ala Tyr Glu Asn Val Lys Glu Val Asp Gly
 35 40 45
 Leu Asp Val Ser Lys Glu Gly Thr Glu Ala Trp Glu Ala Ala Met Lys
 50 55 60
 Arg Tyr Asp Glu Arg Ile Asp Arg Val Glu Thr Arg Ile Thr Ala Arg
 65 70 75 80
 Leu Arg Asp Gln Leu Gly Thr Ala Lys Asn Ala Asn Glu Met Phe Arg
 85 90 95
 Ile Phe Ser Arg Phe Asn Ala Leu Phe Val Arg Pro His Ile Arg Gly
 100 105 110
 Ala Ile Arg Glu Tyr Gln Thr Gln Leu Ile Gln Arg Val Lys Asp Asp
 115 120 125
 Ile Glu Ser Leu His Asp Lys Phe Lys Val Gln Tyr Pro Gln Ser Gln
 130 135 140
 Ala Cys Lys Met Ser His Val Arg Asp Leu Pro Pro Val Ser Gly Ser
 145 150 155 160

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Ile Ile Trp Ala Lys Gln Ile Asp Arg Gln Leu Thr Ala Tyr Met Lys
 165 170 175
 Arg Val Glu Asp Val Leu Gly Lys Gly Trp Glu Asn His Val Glu Gly
 180 185 190
 Gln Lys Leu Lys Gln Asp Gly Asp Ser Phe Arg Met Lys Leu Asn Thr
 195 200 205
 Gln Glu Ile Phe Asp Asp Trp Ala Arg Lys Val Gln Gln Arg Asn Leu
 210 215 220
 Gly Val Ser Gly Arg Ile Phe Thr Ile Glu Ser Thr Arg Val Arg Gly
 225 230 235 240
 Arg Thr Gly Asn Val Leu Lys Leu Lys Val Asn Phe Leu Pro Glu Ile
 245 250 255
 Ile Thr Leu Ser Lys Glu Val Arg Asn Leu Lys Trp Leu Gly Phe Arg
 260 265 270
 Val Pro Leu Ala Ile Val Asn Lys Ala His Gln Ala Asn Gln Leu Tyr
 275 280 285
 Pro Phe Ala Ile Ser Leu Ile Glu Ser Val Arg Thr Tyr Glu Arg Thr
 290 295 300
 Cys Glu Lys Val Glu Glu Arg Asn Thr Ile Ser Leu Leu Val Ala Gly
 305 310 315 320
 Leu Lys Lys Glu Val Gln Ala Leu Ile Ala Glu Gly Ile Ala Leu Val
 325 330 335
 Trp Glu Ser Tyr Lys Leu Asp Pro Tyr Val Gln Arg Leu Ala Glu Thr
 340 345 350
 Val Phe Asn Phe Gln Glu Lys Val Cys Ser His Val Ile Leu
 355 360 365

<210> 80

<211> 1335

<212> PRT

<213> Homo sapiens

<400> 80

Met Ser Asp Ser Val Ile Leu Arg Ser Ile Lys Lys Phe Gly Glu Glu
 1 5 10 15
 Asn Asp Gly Phe Glu Ser Asp Lys Ser Trp Trp Ser Leu Asn Pro Tyr
 20 25 30
 Val Phe Leu Ile Arg Leu Gln Asp Glu Lys Lys Gly Asp Gly Val Arg
 35 40 45
 Val Gly Phe Phe Gln Leu Phe Arg Phe Ser Ser Ser Thr Asp Ile Trp
 50 55 60
 Leu Met Phe Val Gly Ser Leu Cys Ala Phe Leu His Gly Ile Ala Gln
 65 70 75 80
 Pro Gly Val Leu Leu Ile Phe Gly Thr Met Thr Asp Val Phe Ile Asp
 85 90 95
 Tyr Asp Val Glu Leu Gln Glu Leu Gln Ile Pro Gly Lys Ala Cys Val
 100 105 110
 Asn Asn Thr Ile Val Trp Thr Asn Ser Ser Leu Asn Gln Asn Met Thr
 115 120 125
 Asn Gly Thr Arg Cys Gly Leu Leu Asn Ile Glu Ser Glu Met Ile Lys
 130 135 140
 Phe Ala Ser Tyr Tyr Ala Gly Ile Ala Val Ala Val Leu Ile Thr Gly
 145 150 155 160
 Tyr Ile Gln Ile Cys Phe Trp Val Ile Ala Ala Ala Arg Gln Ile Gln
 165 170 175
 Lys Met Arg Lys Phe Tyr Phe Arg Arg Ile Met Arg Met Glu Ile Gly
 180 185 190
 Trp Phe Asp Cys Asn Ser Val Gly Glu Leu Asn Thr Arg Phe Ser Asp
 195 200 205
 Asp Ile Asn Lys Ile Asn Asp Ala Ile Ala Asp Gln Met Ala Leu Phe
 210 215 220
 Ile Gln Arg Met Thr Ser Thr Ile Cys Gly Phe Leu Leu Gly Phe Phe
 225 230 235 240

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Arg Gly Trp Lys Leu Thr Leu Val Ile Ile Ser Val Ser Pro Leu Ile
 245 250 255
 Gly Ile Gly Ala Ala Thr Ile Gly Leu Ser Val Ser Lys Phe Thr Asp
 260 265 270
 Tyr Glu Leu Lys Ala Tyr Ala Lys Ala Gly Val Val Ala Asp Glu Val
 275 280 285
 Ile Ser Ser Met Arg Thr Val Ala Ala Phe Gly Gly Glu Lys Arg Glu
 290 295 300
 Val Glu Arg Tyr Glu Lys Asn Leu Val Phe Ala Gln Arg Trp Gly Ile
 305 310 315 320
 Arg Lys Gly Ile Val Met Gly Phe Phe Thr Gly Phe Val Trp Cys Leu
 325 330 335
 Ile Phe Leu Cys Tyr Ala Leu Ala Phe Trp Tyr Gly Ser Thr Leu Val
 340 345 350
 Leu Asp Glu Gly Glu Tyr Thr Pro Gly Thr Leu Val Gln Ile Phe Leu
 355 360 365
 Ser Val Ile Val Gly Ala Leu Asn Leu Gly Asn Ala Ser Pro Cys Leu
 370 375 380
 Glu Ala Phe Ala Thr Gly Arg Ala Ala Ala Thr Ser Ile Phe Glu Thr
 385 390 395 400
 Ile Asp Arg Lys Pro Ile Ile Asp Cys Met Ser Glu Asp Gly Tyr Lys
 405 410 415
 Leu Asp Arg Ile Lys Gly Glu Ile Glu Phe His Asn Val Thr Phe His
 420 425 430
 Tyr Pro Ser Arg Pro Glu Val Lys Ile Leu Asn Asp Leu Asn Met Val
 435 440 445
 Ile Lys Pro Gly Glu Met Thr Ala Leu Val Gly Pro Ser Gly Ala Gly
 450 455 460
 Lys Ser Thr Ala Leu Gln Leu Ile Gln Arg Phe Tyr Asp Pro Cys Glu
 465 470 475 480
 Gly Met Val Thr Val Asp Gly His Asp Ile Arg Ser Leu Asn Ile Gln
 485 490 495
 Trp Leu Arg Asp Gln Ile Gly Ile Val Glu Gln Glu Pro Val Leu Phe
 500 505 510
 Ser Thr Thr Ile Ala Glu Asn Ile Arg Tyr Gly Arg Glu Asp Ala Thr
 515 520 525
 Met Glu Asp Ile Val Gln Ala Ala Lys Glu Ala Asn Ala Tyr Asn Phe
 530 535 540
 Ile Met Asp Leu Pro Gln Gln Phe Asp Thr Leu Val Gly Glu Gly Gly
 545 550 555 560
 Gly Gln Met Ser Gly Gly Gln Lys Gln Arg Val Ala Ile Ala Arg Ala
 565 570 575
 Leu Ile Arg Asn Pro Lys Ile Leu Leu Asp Met Ala Thr Ser Ala
 580 585 590
 Leu Asp Asn Glu Ser Glu Ala Met Val Gln Glu Val Leu Ser Lys Ile
 595 600 605
 Gln His Gly His Thr Ile Ile Ser Val Ala His Arg Leu Ser Thr Val
 610 615 620
 Arg Ala Ala Asp Thr Ile Ile Gly Phe Glu His Gly Thr Ala Val Glu
 625 630 635 640
 Arg Gly Thr His Glu Glu Leu Leu Glu Arg Lys Gly Val Tyr Phe Thr
 645 650 655
 Leu Val Thr Leu Gln Ser Gln Gly Asn Gln Ala Leu Asn Glu Glu Asp
 660 665 670
 Ile Lys Gly Lys Cys Phe Phe Pro Ile Leu Val Leu Asp Ala Thr Glu
 675 680 685
 Asp Asp Met Leu Ala Arg Thr Phe Ser Arg Gly Ser Tyr Gln Asp Ser
 690 695 700
 Leu Arg Ala Ser Ile Arg Gln Arg Ser Lys Ser Gln Leu Ser Tyr Leu
 705 710 715 720
 Val His Glu Pro Pro Leu Ala Val Val Asp His Lys Ser Thr Tyr Glu
 725 730 735
 Glu Asp Arg Lys Asp Lys Asp Ile Pro Val Gln Glu Glu Val Glu Pro

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	740	745	750
Ala Pro Val Arg Arg Ile Leu Lys	Phe Ser Ala Pro Glu	Trp Pro Tyr	
755	760	765	
Met Leu Val Gly Ser Val Gly	Ala Ala Val Asn Gly	Thr Val Thr Pro	
770	775	780	
Leu Tyr Ala Phe Leu Phe Ser Gln	Ile Leu Gly Thr Phe Ser Ile Pro		
785	790	795	800
Asp Lys Glu Glu Gln Arg Ser Gln	Ile Asn Gly Val Cys Leu Leu Phe		
805	810	815	
Val Ala Met Gly Cys Val Ser Leu	Phe Thr Gln Phe Leu Gln Gly Tyr		
820	825	830	
Ala Phe Ala Lys Ser Gly Glu	Leu Leu Thr Lys Arg Leu Arg Lys Phe		
835	840	845	
Gly Phe Arg Ala Met Leu Gly Gln Asp Ile Ala Trp	Phe Asp Asp Leu		
850	855	860	
Arg Asn Ser Pro Gly Ala Leu Thr Thr Arg	Leu Ala Thr Asp Ala Ser		
865	870	875	880
Gln Val Gln Gly Ala Ala Gly Ser Gln	Ile Gly Met Ile Val Asn Ser		
885	890	895	
Phe Thr Asn Val Thr Val Ala Met Ile Ile Ala Phe Ser	Phe Ser Trp		
900	905	910	
Lys Leu Ser Leu Val Ile Leu Cys	Phe Phe Pro Phe Leu Ala Leu Ser		
915	920	925	
Gly Ala Thr Gln Thr Arg Met	Leu Thr Gly Phe Ala Ser Arg Asp Lys		
930	935	940	
Gln Ala Leu Glu Met Val Gly Gln Ile Thr Asn Glu	Ala Leu Ser Asn		
945	950	955	960
Ile Arg Thr Val Ala Gly Ile Gly Lys Glu Arg Arg Phe	Ile Glu Ala		
965	970	975	
Leu Glu Thr Glu Leu Glu Lys Pro Phe Lys Thr Ala Ile	Gln Lys Ala		
980	985	990	
Asn Ile Tyr Gly Phe Cys Phe Ala Phe Ala Gln Cys	Ile Met Phe Ile		
995	1000	1005	
Ala Asn Ser Ala Ser Tyr Arg Tyr Gly Gly Tyr	Leu Ile Ser Asn Glu		
1010	1015	1020	
Gly Leu His Phe Ser Tyr Val Phe Arg Val	Ile Ser Ala Val Val Leu		
1025	1030	1035	1040
Ser Ala Thr Ala Leu Gly Arg Ala Phe Ser	Tyr Thr Pro Ser Tyr Ala		
1045	1050	1055	
Lys Ala Lys Ile Ser Ala Ala Arg Phe Phe Gln	Leu Leu Asp Arg Gln		
1060	1065	1070	
Pro Pro Ile Ser Val Tyr Asn Thr Ala Gly Glu Lys	Trp Asp Asn Phe		
1075	1080	1085	
Gln Gly Lys Ile Asp Phe Val Asp Cys Lys Phe	Thr Tyr Pro Ser Arg		
1090	1095	1100	
Pro Asp Ser Gln Val Leu Asn Gly	Leu Ser Val Ser Ile Ser Pro Gly		
1105	1110	1115	1120
Gln Thr Leu Ala Phe Val Gly Ser Ser	Gly Cys Gly Lys Ser Thr Ser		
1125	1130	1135	
Ile Gln Leu Leu Glu Arg Phe Tyr	Asp Pro Asp Gln Gly Lys Val Met		
1140	1145	1150	
Ile Asp Gly His Asp Ser Lys Lys Val Asn Val	Gln Phe Leu Arg Ser		
1155	1160	1165	
Asn Ile Gly Ile Val Ser Gln Glu Pro Val Leu	Phe Ala Cys Ser Ile		
1170	1175	1180	
Met Asp Asn Ile Lys Tyr Gly Asp Asn Thr Lys	Glu Ile Pro Met Glu		
1185	1190	1195	1200
Arg Val Ile Ala Ala Lys Gln Ala Gln Leu His Asp Phe	Val Met		
1205	1210	1215	
Ser Leu Pro Glu Lys Tyr Glu Thr Asn Val Gly Ser	Gln Gly Ser Gln		
1220	1225	1230	
Leu Ser Arg Gly Glu Lys Gln Arg Ile Ala Ile Ala	Arg Ala Ile Val		
1235	1240	1245	

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Arg Asp Pro Lys Ile Leu Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp
 1250 1255 1260
 Thr Glu Ser Glu Lys Thr Val Gln Val Ala Leu Asp Lys Ala Arg Glu
 1265 1270 1275 1280
 Gly Arg Thr Cys Ile Val Ile Ala His Arg Leu Ser Thr Ile Gln Asn
 1285 1290 1295
 Ala Asp Ile Ile Ala Val Met Ala Gln Gly Val Val Ile Glu Lys Gly
 1300 1305 1310
 Thr His Glu Glu Leu Met Ala Gln Lys Gly Ala Tyr Tyr Lys Leu Val
 1315 1320 1325
 Thr Thr Gly Ser Pro Ile Ser
 1330 1335

<210> 81

<211> 1279

<212> PRT

<213> Homo sapiens

<400> 81

Met Asp Leu Glu Ala Ala Lys Asn Gly Thr Ala Trp Arg Pro Thr Ser
 1 5 10 15
 Ala Glu Gly Asp Phe Glu Leu Gly Ile Ser Ser Lys Gln Lys Arg Lys
 20 25 30
 Lys Thr Lys Thr Val Lys Met Ile Gly Val Leu Thr Leu Phe Arg Tyr
 35 40 45
 Ser Asp Trp Gln Asp Lys Leu Phe Met Ser Leu Gly Thr Ile Met Ala
 50 55 60
 Ile Ala His Gly Ser Gly Leu Pro Leu Met Met Ile Val Phe Gly Glu
 65 70 75 80
 Met Thr Asp Lys Phe Val Asp Thr Ala Gly Asn Phe Ser Phe Pro Val
 85 90 95
 Asn Phe Ser Leu Ser Leu Leu Asn Pro Gly Lys Ile Leu Glu Glu Glu
 100 105 110
 Met Thr Arg Tyr Ala Tyr Tyr Ser Gly Leu Gly Ala Gly Val Leu
 115 120 125
 Val Ala Ala Tyr Ile Gln Val Ser Phe Trp Thr Leu Ala Ala Gly Arg
 130 135 140
 Gln Ile Arg Lys Ile Arg Gln Lys Phe Phe His Ala Ile Leu Arg Gln
 145 150 155 160
 Glu Ile Gly Trp Phe Asp Ile Asn Asp Thr Thr Glu Leu Asn Thr Arg
 165 170 175
 Leu Thr Asp Asp Ile Ser Lys Ile Ser Glu Gly Ile Gly Asp Lys Val
 180 185 190
 Gly Met Phe Phe Gln Ala Val Ala Thr Phe Phe Ala Gly Phe Ile Val
 195 200 205
 Gly Phe Ile Arg Gly Trp Lys Leu Thr Leu Val Ile Met Ala Ile Ser
 210 215 220
 Pro Ile Leu Gly Leu Ser Ala Ala Val Trp Ala Lys Ile Leu Ser Ala
 225 230 235 240
 Phe Ser Asp Lys Glu Leu Ala Ala Tyr Ala Lys Ala Gly Ala Val Ala
 245 250 255
 Glu Glu Ala Leu Gly Ala Ile Arg Thr Val Ile Ala Phe Gly Gly Gln
 260 265 270
 Asn Lys Glu Leu Glu Arg Tyr Gln Lys His Leu Glu Asn Ala Lys Glu
 275 280 285
 Ile Gly Ile Lys Lys Ala Ile Ser Ala Asn Ile Ser Met Gly Ile Ala
 290 295 300
 Phe Leu Leu Ile Tyr Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Ser
 305 310 315 320
 Thr Leu Val Ile Ser Lys Glu Tyr Thr Ile Gly Asn Ala Met Thr Val
 325 330 335
 Phe Phe Ser Ile Leu Ile Gly Ala Phe Ser Val Gly Gln Ala Ala Pro
 340 345 350

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Cys Ile Asp Ala Phe Ala Asn Ala Arg Gly Ala Ala Tyr Val Ile Phe
 355 360 365
 Asp Ile Ile Asp Asn Asn Pro Lys Ile Asp Ser Phe Ser Glu Arg Gly
 370 375 380
 His Lys Pro Asp Ser Ile Lys Gly Asn Leu Glu Phe Asn Asp Val His
 385 390 395 400
 Phe Ser Tyr Pro Ser Arg Ala Asn Val Lys Ile Leu Lys Gly Leu Asn
 405 410 415
 Leu Lys Val Gln Ser Gly Gln Thr Val Ala Leu Val Gly Ser Ser Gly
 420 425 430
 Cys Gly Lys Ser Thr Thr Val Gln Leu Ile Gln Arg Leu Tyr Asp Pro
 435 440 445
 Asp Glu Gly Thr Ile Asn Ile Asp Gly Gln Asp Ile Arg Asn Phe Asn
 450 455 460
 Val Asn Tyr Leu Arg Glu Ile Ile Gly Val Val Ser Gln Glu Pro Val
 465 470 475 480
 Leu Phe Ser Thr Thr Ile Ala Glu Asn Ile Cys Tyr Gly Arg Gly Asn
 485 490 495
 Val Thr Met Asp Glu Ile Lys Lys Ala Val Lys Glu Ala Asn Ala Tyr
 500 505 510
 Glu Phe Ile Met Lys Leu Pro Gln Lys Phe Asp Thr Leu Val Gly Glu
 515 520 525
 Arg Gly Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile Ala
 530 535 540
 Arg Ala Leu Val Arg Asn Pro Lys Ile Leu Leu Asp Glu Ala Thr
 545 550 555 560
 Ser Ala Leu Asp Thr Glu Ser Glu Ala Glu Val Gln Ala Ala Leu Asp
 565 570 575
 Lys Ala Arg Glu Gly Arg Thr Thr Ile Val Ile Ala His Arg Leu Ser
 580 585 590
 Thr Val Arg Asn Ala Asp Val Ile Ala Gly Phe Glu Asp Gly Val Ile
 595 600 605
 Val Glu Gln Gly Ser His Ser Glu Leu Met Lys Lys Glu Gly Val Tyr
 610 615 620
 Phe Lys Leu Val Asn Met Gln Thr Ser Gly Ser Gln Ile Gln Ser Glu
 625 630 635 640
 Glu Phe Glu Leu Asn Asp Glu Lys Ala Ala Thr Arg Met Ala Pro Asn
 645 650 655
 Gly Trp Lys Ser Arg Leu Phe Arg His Ser Thr Gln Lys Asn Leu Lys
 660 665 670
 Asn Ser Gln Met Cys Gln Lys Ser Leu Asp Val Glu Thr Asp Gly Leu
 675 680 685
 Glu Ala Asn Val Pro Pro Val Ser Phe Leu Lys Val Leu Lys Leu Asn
 690 695 700
 Lys Thr Glu Trp Pro Tyr Phe Val Val Gly Thr Val Cys Ala Ile Ala
 705 710 715 720
 Asn Gly Gly Leu Gln Pro Ala Phe Ser Val Ile Phe Ser Glu Ile Ile
 725 730 735
 Ala Ile Phe Gly Pro Gly Asp Asp Ala Val Lys Gln Gln Lys Cys Asn
 740 745 750
 Ile Phe Ser Leu Ile Phe Leu Phe Leu Gly Ile Ile Ser Phe Phe Thr
 755 760 765
 Phe Phe Leu Gln Gly Phe Thr Phe Gly Lys Ala Gly Glu Ile Leu Thr
 770 775 780
 Arg Arg Leu Arg Ser Met Ala Phe Lys Ala Met Leu Arg Gln Asp Met
 785 790 795 800
 Ser Trp Phe Asp Asp His Lys Asn Ser Thr Gly Ala Leu Ser Thr Arg
 805 810 815
 Leu Ala Thr Asp Ala Ala Gln Val Gln Gly Ala Thr Gly Thr Arg Leu
 820 825 830
 Ala Leu Ile Ala Gln Asn Ile Ala Asn Leu Gly Thr Gly Ile Ile Ile
 835 840 845
 Ser Phe Ile Tyr Gly Trp Gln Leu Thr Leu Leu Leu Ala Val Val

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850	855	860
Pro Ile Ile Ala Val Ser Gly Ile Val Glu Met Lys Leu Leu Ala Gly		
865	870	875
Asn Ala Lys Arg Asp Lys Lys Glu Leu Glu Ala Ala Gly Lys Ile Ala		880
885	890	895
Thr Glu Ala Ile Glu Asn Ile Arg Thr Val Val Ser Leu Thr Gln Glu		
900	905	910
Arg Lys Phe Glu Ser Met Tyr Val Glu Lys Leu Tyr Gly Pro Tyr Arg		
915	920	925
Asn Ser Val Gln Lys Ala His Ile Tyr Gly Ile Thr Phe Ser Ile Ser		
930	935	940
Gln Ala Phe Met Tyr Phe Ser Tyr Ala Gly Cys Phe Arg Phe Gly Ala		
945	950	955
Tyr Leu Ile Val Asn Gly His Met Arg Phe Arg Asp Val Ile Leu Val		960
965	970	975
Phe Ser Ala Ile Val Phe Gly Ala Val Ala Leu Gly His Ala Ser Ser		
980	985	990
Phe Ala Pro Asp Tyr Ala Lys Ala Lys Leu Ser Ala Ala His Leu Phe		
995	1000	1005
Met Leu Phe Glu Arg Gln Pro Leu Ile Asp Ser Tyr Ser Glu Glu Gly		
1010	1015	1020
Leu Lys Pro Asp Lys Phe Glu Gly Asn Ile Thr Phe Asn Glu Val Val		
1025	1030	1035
Phe Asn Tyr Pro Thr Arg Ala Asn Val Pro Val Leu Gln Gly Leu Ser		
1045	1050	1055
Leu Glu Val Lys Lys Gly Gln Thr Leu Ala Leu Val Gly Ser Ser Gly		
1060	1065	1070
Cys Gly Lys Ser Thr Val Val Gln Leu Leu Glu Arg Phe Tyr Asp Pro		
1075	1080	1085
Leu Ala Gly Thr Val Leu Leu Asp Gly Gln Glu Ala Lys Lys Leu Asn		
1090	1095	1100
Val Gln Trp Leu Arg Ala Gln Leu Gly Ile Val Ser Gln Glu Pro Ile		
1105	1110	1115
Leu Phe Asp Cys Ser Ile Ala Glu Asn Ile Ala Tyr Gly Asp Asn Ser		
1125	1130	1135
Arg Val Val Ser Gln Asp Glu Ile Val Ser Ala Ala Lys Ala Ala Asn		
1140	1145	1150
Ile His Pro Phe Ile Glu Thr Leu Pro His Lys Tyr Glu Thr Arg Val		
1155	1160	1165
Gly Asp Lys Gly Thr Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala		
1170	1175	1180
Ile Ala Arg Ala Leu Ile Arg Gln Pro Gln Ile Leu Leu Leu Asp Glu		
1185	1190	1195
Ala Thr Ser Ala Leu Asp Thr Glu Ser Glu Lys Val Val Gln Glu Ala		
1205	1210	1215
Leu Asp Lys Ala Arg Glu Gly Arg Thr Cys Ile Val Ile Ala His Arg		
1220	1225	1230
Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe Gln Asn Gly		
1235	1240	1245
Arg Val Lys Glu His Gly Thr His Gln Gln Leu Leu Ala Gln Lys Gly		
1250	1255	1260
Ile Tyr Phe Ser Met Val Ser Val Gln Ala Gly Thr Gln Asn Leu		
1265	1270	1275

<210> 82
<211> 1280
<212> PRT
<213> Homo sapiens

<400> 82
Met Asp Leu Glu Gly Asp Arg Asn Gly Gly Ala Lys Lys Lys Asn Phe
1 5 10 15
Phe Lys Leu Asn Asn Lys Ser Glu Lys Asp Lys Lys Glu Lys Lys Pro

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20	25	30
Thr Val Ser Val Phe Ser Met Phe Arg Tyr Ser Asn Trp Leu Asp Lys		
35	40	45
Leu Tyr Met Val Val Gly Thr Leu Ala Ala Ile Ile His Gly Ala Gly		
50	55	60
Leu Pro Leu Met Met Leu Val Phe Gly Glu Met Thr Asp Ile Phe Ala		
65	70	75
Asn Ala Gly Asn Leu Glu Asp Leu Met Ser Asn Ile Thr Asn Arg Ser		
85	90	95
Asp Ile Asn Asp Thr Gly Phe Phe Met Asn Leu Glu Glu Asp Met Thr		
100	105	110
Arg Tyr Ala Tyr Tyr Tyr Ser Gly Ile Gly Ala Gly Val Leu Val Ala		
115	120	125
Ala Tyr Ile Gln Val Ser Phe Trp Cys Leu Ala Ala Gly Arg Gln Ile		
130	135	140
His Lys Ile Arg Lys Gln Phe Phe His Ala Ile Met Arg Gln Glu Ile		
145	150	155
Gly Trp Phe Asp Val His Asp Val Gly Glu Leu Asn Thr Arg Leu Thr		
165	170	175
Asp Asp Val Ser Lys Ile Asn Glu Gly Ile Gly Asp Lys Ile Gly Met		
180	185	190
Phe Phe Gln Ser Met Ala Thr Phe Phe Thr Gly Phe Ile Val Gly Phe		
195	200	205
Thr Arg Gly Trp Lys Leu Thr Leu Val Ile Leu Ala Ile Ser Pro Val		
210	215	220
Leu Gly Leu Ser Ala Ala Val Trp Ala Lys Ile Leu Ser Ser Phe Thr		
225	230	235
Asp Lys Glu Leu Leu Ala Tyr Ala Lys Ala Gly Ala Val Ala Glu Glu		
245	250	255
Val Leu Ala Ala Ile Arg Thr Val Ile Ala Phe Gly Gln Lys Lys		
260	265	270
Glu Leu Glu Arg Tyr Asn Lys Asn Leu Glu Glu Ala Lys Arg Ile Gly		
275	280	285
Ile Lys Lys Ala Ile Thr Ala Asn Ile Ser Ile Gly Ala Ala Phe Leu		
290	295	300
Leu Ile Tyr Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Thr Thr Leu		
305	310	315
Val Leu Ser Gly Glu Tyr Ser Ile Gly Gln Val Leu Thr Val Phe Phe		
325	330	335
Ser Val Leu Ile Gly Ala Phe Ser Val Gly Gln Ala Ser Pro Ser Ile		
340	345	350
Glu Ala Phe Ala Asn Ala Arg Gly Ala Ala Tyr Glu Ile Phe Lys Ile		
355	360	365
Ile Asp Asn Lys Pro Ser Ile Asp Ser Tyr Ser Lys Ser Gly His Lys		
370	375	380
Pro Asp Asn Ile Lys Gly Asn Leu Glu Phe Arg Asn Val His Phe Ser		
385	390	395
Tyr Pro Ser Arg Lys Glu Val Lys Ile Leu Lys Gly Leu Asn Leu Lys		
405	410	415
Val Gln Ser Gly Gln Thr Val Ala Leu Val Gly Asn Ser Gly Cys Gly		
420	425	430
Lys Ser Thr Thr Val Gln Leu Met Gln Arg Leu Tyr Asp Pro Thr Glu		
435	440	445
Gly Met Val Ser Val Asp Gly Gln Asp Ile Arg Thr Ile Asn Val Arg		
450	455	460
Phe Leu Arg Glu Ile Ile Gly Val Val Ser Gln Glu Pro Val Leu Phe		
465	470	475
Ala Thr Thr Ile Ala Glu Asn Ile Arg Tyr Gly Arg Glu Asn Val Thr		
485	490	495
Met Asp Glu Ile Glu Lys Ala Val Lys Glu Ala Asn Ala Tyr Asp Phe		
500	505	510
Ile Met Lys Leu Pro His Lys Phe Asp Thr Leu Val Gly Glu Arg Gly		
515	520	525

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Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile Ala Arg Ala
 530 535 540
 Leu Val Arg Asn Pro Lys Ile Leu Leu Leu Asp Glu Ala Thr Ser Ala
 545 550 555 560
 Leu Asp Thr Glu Ser Glu Ala Val Val Gln Val Ala Leu Asp Lys Ala
 565 570 575
 Arg Lys Gly Arg Thr Thr Ile Val Ile Ala His Arg Leu Ser Thr Val
 580 585 590
 Arg Asn Ala Asp Val Ile Ala Gly Phe Asp Asp Gly Val Ile Val Glu
 595 600 605
 Lys Gly Asn His Asp Glu Leu Met Lys Glu Lys Gly Ile Tyr Phe Lys
 610 615 620
 Leu Val Thr Met Gln Thr Ala Gly Asn Glu Val Glu Leu Glu Asn Ala
 625 630 635 640
 Ala Asp Glu Ser Lys Ser Glu Ile Asp Ala Leu Glu Met Ser Ser Asn
 645 650 655
 Asp Ser Arg Ser Ser Leu Ile Arg Lys Arg Ser Thr Arg Arg Ser Val
 660 665 670
 Arg Gly Ser Gln Ala Gln Asp Arg Lys Leu Ser Thr Lys Glu Ala Leu
 675 680 685
 Asp Glu Ser Ile Pro Pro Val Ser Phe Trp Arg Ile Met Lys Leu Asn
 690 695 700
 Leu Thr Glu Trp Pro Tyr Phe Val Val Gly Val Phe Cys Ala Ile Ile
 705 710 715 720
 Asn Gly Gly Leu Gln Pro Ala Phe Ala Ile Ile Phe Ser Lys Ile Ile
 725 730 735
 Gly Val Phe Thr Arg Ile Asp Asp Pro Glu Thr Lys Arg Gln Asn Ser
 740 745 750
 Asn Leu Phe Ser Leu Leu Phe Leu Ala Leu Gly Ile Ile Ser Phe Ile
 755 760 765
 Thr Phe Phe Leu Gln Gly Phe Thr Phe Gly Lys Ala Gly Glu Ile Leu
 770 775 780
 Thr Lys Arg Leu Arg Tyr Met Val Phe Arg Ser Met Leu Arg Gln Asp
 785 790 795 800
 Val Ser Trp Phe Asp Asp Pro Lys Asn Thr Thr Gly Ala Leu Thr Thr
 805 810 815
 Arg Leu Ala Asn Asp Ala Ala Gln Val Lys Gly Ala Ile Gly Ser Arg
 820 825 830
 Leu Ala Val Ile Thr Gln Asn Ile Ala Asn Leu Gly Thr Gly Ile Ile
 835 840 845
 Ile Ser Phe Ile Tyr Gly Trp Gln Leu Thr Leu Leu Leu Leu Ala Ile
 850 855 860
 Val Pro Ile Ile Ala Ile Ala Gly Val Val Glu Met Lys Met Leu Ser
 865 870 875 880
 Gly Gln Ala Leu Lys Asp Lys Lys Glu Leu Glu Gly Ser Gly Lys Ile
 885 890 895
 Ala Thr Glu Ala Ile Glu Asn Phe Arg Thr Val Val Ser Leu Thr Gln
 900 905 910
 Glu Gln Lys Phe Glu His Met Tyr Ala Gln Ser Leu Gln Val Pro Tyr
 915 920 925
 Arg Asn Ser Leu Arg Lys Ala His Ile Phe Gly Ile Thr Phe Ser Phe
 930 935 940
 Thr Gln Ala Met Met Tyr Phe Ser Tyr Ala Gly Cys Phe Arg Phe Gly
 945 950 955 960
 Ala Tyr Leu Val Ala His Lys Leu Met Ser Phe Glu Asp Val Leu Leu
 965 970 975
 Val Phe Ser Ala Val Val Phe Gly Ala Met Ala Val Gly Gln Val Ser
 980 985 990
 Ser Phe Ala Pro Asp Tyr Ala Lys Ala Lys Ile Ser Ala Ala His Ile
 995 1000 1005
 Ile Met Ile Ile Glu Lys Thr Pro Leu Ile Asp Ser Tyr Ser Thr Glu
 1010 1015 1020
 Gly Leu Met Pro Asn Thr Leu Glu Gly Asn Val Thr Phe Gly Glu Val

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1025	1030	1035	1040
Val Phe Asn Tyr Pro Thr Arg Pro Asp Ile Pro Val Leu Gln Gly Leu			
1045	1050	1055	
Ser Leu Glu Val Lys Lys Gly Gln Thr Leu Ala Leu Val Gly Ser Ser			
1060	1065	1070	
Gly Cys Gly Lys Ser Thr Val Val Gln Leu Leu Glu Arg Phe Tyr Asp			
1075	1080	1085	
Pro Leu Ala Gly Lys Val Leu Leu Asp Gly Lys Glu Ile Lys Arg Leu			
1090	1095	1100	
Asn Val Gln Trp Leu Arg Ala His Leu Gly Ile Val Ser Gln Glu Pro			
1105	1110	1115	1120
Ile Leu Phe Asp Cys Ser Ile Ala Glu Asn Ile Ala Tyr Gly Asp Asn			
1125	1130	1135	
Ser Arg Val Val Ser Gln Glu Glu Ile Val Arg Ala Ala Lys Glu Ala			
1140	1145	1150	
Asn Ile His Ala Phe Ile Glu Ser Leu Pro Asn Lys Tyr Ser Thr Lys			
1155	1160	1165	
Val Gly Asp Lys Gly Thr Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile			
1170	1175	1180	
Ala Ile Ala Arg Ala Leu Val Arg Gln Pro His Ile Leu Leu Leu Asp			
1185	1190	1195	1200
Glu Ala Thr Ser Ala Leu Asp Thr Glu Ser Glu Lys Val Val Gln Glu			
1205	1210	1215	
Ala Leu Asp Lys Ala Arg Glu Gly Arg Thr Cys Ile Val Ile Ala His			
1220	1225	1230	
Arg Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe Gln Asn			
1235	1240	1245	
Gly Arg Val Lys Glu His Gly Thr His Gln Gln Leu Leu Ala Gln Lys			
1250	1255	1260	
Gly Ile Tyr Phe Ser Met Val Ser Val Gln Ala Gly Thr Lys Arg Gln			
1265	1270	1275	1280

<210> 83

<211> 378

<212> PRT

<213> Homo sapiens

<400> 83

Met Leu Leu Thr Val Tyr Cys Val Arg Arg Asp Leu Ser Glu Val Thr			
1	5	10	15
Phe Ser Leu Gln Val Asp Ala Asp Phe Glu Leu His Asn Phe Arg Ala			
20	25	30	
Leu Cys Glu Leu Glu Ser Gly Ile Pro Ala Ala Glu Ser Gln Ile Val			
35	40	45	
Tyr Ala Glu Arg Pro Leu Thr Asp Asn His Arg Ser Leu Ala Ser Tyr			
50	55	60	
Gly Leu Lys Asp Gly Asp Val Val Ile Leu Arg Gln Lys Glu Asn Ala			
65	70	75	80
Asp Pro Arg Pro Pro Val Gln Phe Pro Asn Leu Pro Arg Ile Asp Phe			
85	90	95	
Ser Ser Ile Ala Val Pro Gly Thr Ser Ser Pro Arg Gln Arg Gln Pro			
100	105	110	
Pro Gly Thr Gln Gln Ser His Ser Ser Pro Gly Glu Ile Thr Ser Ser			
115	120	125	
Pro Gln Gly Leu Asp Asn Pro Ala Leu Leu Arg Asp Met Leu Leu Ala			
130	135	140	
Asn Pro His Glu Leu Ser Leu Leu Lys Glu Arg Asn Pro Pro Leu Ala			
145	150	155	160
Glu Ala Leu Leu Ser Gly Asp Leu Glu Lys Phe Ser Arg Val Leu Val			
165	170	175	
Glu Gln Gln Gln Asp Arg Ala Arg Arg Glu Gln Glu Arg Ile Arg Leu			
180	185	190	
Phe Ser Ala Asp Pro Phe Asp Leu Glu Ala Gln Ala Lys Ile Glu Glu			

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195	200	205
Asp Ile Arg Gln Gln Asn Ile Glu Glu Asn Met Thr Ile Ala Met Glu	210 215	220
Glu Ala Pro Glu Ser Phe Gly Gln Val Val Met Leu Tyr Ile Asn Cys	225 230	235 240
Lys Val Asn Gly His Pro Val Lys Ala Phe Val Asp Ser Gly Ala Gln	245 250	255
Met Thr Ile Met Ser Gln Ala Cys Ala Glu Arg Cys Asn Ile Met Arg	260 265	270
Leu Val Asp Arg Arg Trp Ala Gly Ile Ala Lys Gly Val Gly Thr Gln	275 280	285
Lys Ile Ile Gly Arg Val His Leu Ala Gln Val Gln Ile Glu Gly Asp	290 295	300
Phe Leu Pro Cys Ser Phe Ser Ile Leu Glu Glu Gln Pro Met Asp Met	305 310	315 320
Leu Leu Gly Leu Asp Met Leu Lys Arg His Gln Cys Ser Ile Asp Leu	325 330	335
Lys Lys Asn Val Leu Val Ile Gly Thr Gly Ser Gln Thr Thr Phe	340 345	350
Leu Pro Glu Gly Glu Leu Pro Glu Cys Ala Arg Leu Ala Tyr Gly Ala	355 360	365
Gly Arg Glu Asp Val Arg Pro Glu Glu Ile	370 375	

<210> 84

<211> 78

<212> PRT

<213> Homo sapiens

<400> 84

Gln Thr Gly Pro Ser Val Thr Val Thr Cys Thr Glu Gly Lys Trp Asn	1 5 10 15
Lys Gln Cys Arg Ile Lys Cys Glu Asp Thr Ala Pro His Ala Val Leu	20 25 30
Pro Ser Gly Ser Glu Cys Ala Thr Ser Cys Leu Asp His Asn Ser Glu	35 40 45
Ser Ile Ile Leu Pro Met Asn Val Thr Val Arg Asp Ile Pro His Trp	50 55 60
Leu Asn Pro Thr Arg Val Glu Val Ser Asp Gln Gly His Leu	65 70 75

<210> 85

<211> 417

<212> PRT

<213> Homo sapiens

<400> 85

Met Ser Ala Thr Leu Ile Leu Glu Pro Pro Gly Arg Cys Cys Trp Asn	1 5 10 15
Glu Pro Val Arg Ile Ala Val Arg Gly Leu Ala Pro Glu Gln Arg Val	20 25 30
Thr Leu Arg Ala Ser Leu Arg Asp Glu Lys Gly Ala Leu Phe Arg Ala	35 40 45
His Ala Arg Tyr Cys Ala Asp Ala Arg Gly Glu Leu Asp Leu Glu Arg	50 55 60
Ala Pro Ala Leu Gly Gly Ser Phe Ala Gly Leu Glu Pro Met Gly Leu	65 70 75 80
Leu Trp Ala Leu Glu Pro Glu Lys Pro Phe Trp Arg Phe Leu Lys Arg	85 90 95
Asp Val Gln Ile Pro Phe Val Val Glu Leu Glu Val Leu Asp Gly His	100 105 110
Asp Pro Glu Pro Gly Arg Leu Leu Cys Gln Ala Gln His Glu Arg His	115 120 125

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Phe Leu Pro Pro Gly Val Arg Arg Gln Ser Val Arg Ala Gly Arg Val
130 135 140
Arg Ala Thr Leu Phe Leu Pro Pro Gly Pro Phe Pro Gly Ile
145 150 155 160
Ile Asp Ile Phe Gly Ile Gly Gly Leu Leu Glu Tyr Arg Ala Ser
165 170 175
Leu Leu Ala Gly His Gly Phe Ala Thr Leu Ala Leu Ala Tyr Tyr Asn
180 185 190
Phe Glu Asp Leu Pro Asn Asn Met Asp Asn Ile Ser Leu Glu Tyr Phe
195 200 205
Glu Glu Ala Val Cys Tyr Met Leu Gln His Pro Gln Val Lys Gly Pro
210 215 220
Gly Ile Gly Leu Leu Gly Ile Ser Leu Gly Ala Asp Ile Cys Leu Ser
225 230 235 240
Met Ala Ser Phe Leu Lys Asn Val Ser Ala Thr Val Ser Ile Asn Gly
245 250 255
Ser Gly Ile Ser Gly Asn Thr Ala Ile Asn Tyr Lys His Ser Ser Ile
260 265 270
Pro Pro Leu Gly Tyr Asp Leu Arg Arg Ile Lys Val Ala Phe Ser Gly
275 280 285
Leu Val Asp Ile Val Asp Ile Arg Asn Ala Leu Val Gly Gly Tyr Lys
290 295 300
Asn Pro Ser Met Ile Pro Ile Glu Lys Ala Gln Gly Pro Ile Leu Leu
305 310 315 320
Ile Val Gly Gln Asp Asp His Asn Trp Arg Ser Glu Leu Tyr Ala Gln
325 330 335
Thr Val Ser Glu Arg Leu Gln Ala His Gly Lys Glu Lys Pro Gln Ile
340 345 350
Ile Cys Tyr Pro Gly Thr Gly His Tyr Ile Glu Pro Pro Tyr Phe Pro
355 360 365
Leu Cys Pro Ala Ser Leu His Arg Leu Leu Asn Lys His Val Ile Trp
370 375 380
Gly Gly Glu Pro Arg Ala His Ser Lys Ala Gln Glu Asp Ala Trp Lys
385 390 395 400
Gln Ile Leu Ala Phe Phe Cys Lys His Leu Gly Gly Thr Gln Lys Thr
405 410 415
Ala

<210> 86
<211> 1066
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (116)...(117)
<223> Xaa = Any Amino Acid

<400> 86
Ile Leu His Gly Glu His Thr Leu Ser His Gln Asp Asn Phe Ser Pro
1 5 10 15
Gly Gln Glu Val Phe Tyr Ser Cys Glu Pro Ser Tyr Asp Leu Arg Gly
20 25 30
Ala Ala Ser Leu His Cys Thr Pro Gln Gly Asp Trp Ser Pro Glu Ala
35 40 45
Pro Arg Cys Thr Val Lys Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro
50 55 60
His Gly Arg Val Leu Leu Pro Leu Asn Leu Gln Leu Gly Ala Lys Val
65 70 75 80
Ser Phe Val Cys Asp Glu Gly Phe Arg Leu Lys Gly Arg Ser Ala Ser
85 90 95
His Cys Val Leu Ala Gly Met Lys Ala Leu Trp Asn Ser Ser Val Pro

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100	105	110		
Val Cys Glu Xaa Xaa Met Ile Lys Thr Val Phe Leu Phe	115	120	125	
Pro Ile Ser Asn Asn Ala His Glu Asn Pro Lys Glu Val Ala Ile His	130	135	140	
Leu His Ser Gln Gly Gly Ser Ser Val His Pro Arg Thr Leu Gln Thr	145	150	155	160
Asn Glu Glu Asn Ser Arg Tyr Ile His Thr Glu Phe Lys Met Phe Ser	165	170	175	
Thr Thr Gln Ile Ser Lys Met Glu Thr Gly Leu Glu Tyr Asp Ile Ala	180	185	190	
Leu Ala Asn Asn Glu Cys Lys Asn Ser Tyr Ser Leu Val Thr Arg Glu	195	200	205	
Ile Phe Val Ile His Tyr Ile Asp Cys Ala Leu Pro Phe Pro Gly Ile	210	215	220	
Ile Cys Gly Leu Pro Pro Thr Ile Ala Asn Gly Asp Phe Thr Ser Ile	225	230	235	240
Ser Arg Glu Tyr Phe His Tyr Gly Ser Val Val Thr Tyr His Cys Asn	245	250	255	
Leu Gly Ser Arg Gly Lys Lys Val Phe Glu Leu Val Gly Glu Pro Ser	260	265	270	
Ile Tyr Cys Thr Ser Lys Asp Asp Gln Val Gly Ile Trp Ser Gly Pro	275	280	285	
Ala Pro Gln Cys Ile Ile Pro Asn Lys Cys Thr Pro Pro Asn Val Glu	290	295	300	
Asn Gly Ile Leu Val Ser Asp Asn Arg Ser Leu Phe Ser Leu Asn Glu	305	310	315	320
Val Val Glu Phe Arg Cys Gln Pro Gly Phe Gly Met Lys Gly Pro Ser	325	330	335	
His Val Lys Cys Gln Ala Leu Asn Lys Trp Glu Pro Glu Leu Pro Ser	340	345	350	
Cys Ser Arg Val Cys Gln Pro Pro Pro Asp Val Leu His Ala Glu Arg	355	360	365	
Thr Gln Arg Asp Lys Asp Asn Phe Ser Pro Gly Gln Glu Val Phe Tyr	370	375	380	
Ser Cys Glu Pro Gly Tyr Asp Leu Arg Gly Ser Thr Tyr Leu His Cys	385	390	395	400
Thr Pro Gln Gly Asp Trp Ser Pro Ala Ala Pro Arg Cys Glu Val Lys	405	410	415	
Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro Asn Gly His Val Leu Phe	420	425	430	
Pro Leu Asn Leu Gln Leu Gly Ala Lys Val Asp Phe Val Cys Asp Glu	435	440	445	
Gly Phe Gln Leu Lys Gly Ser Ser Ala Ser Tyr Cys Val Leu Ala Gly	450	455	460	
Met Glu Ser Leu Trp Asn Ser Ser Val Pro Val Cys Glu Arg Val Thr	465	470	475	480
Phe Gln Ala Asn Leu Ser Pro Ser Ser Val Gln Tyr Leu Thr His Asp	485	490	495	
Thr Leu Arg Thr Glu Glu Ser Ser Asp Tyr Ser Thr Trp Leu Gln Asn	500	505	510	
Ile Phe Phe Pro Thr Gly Lys Ser Cys Glu Thr Pro Pro Val Pro Val	515	520	525	
Asn Gly Met Val His Val Ile Thr Asp Ile His Val Gly Ser Arg Ile	530	535	540	
Asn Tyr Ser Cys Thr Thr Gly His Arg Leu Ile Gly His Ser Ser Ala	545	550	555	560
Glu Cys Ile Leu Ser Gly Asn Thr Ala His Trp Ser Met Lys Pro Pro	565	570	575	
Ile Cys Gln Arg Ile Pro Cys Gly Leu Pro Pro Asn Ile Thr Asn Gly	580	585	590	
Tyr Phe Ile Ser Thr Asp Arg Glu Tyr Phe His Tyr Gly Ser Val Val	595	600	605	

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Thr Tyr His Cys Asn Leu Gly Ser Arg Gly Arg Lys Val Phe Glu Leu
 610 615 620
 Val Gly Glu Pro Ser Ile Tyr Cys Thr Ser Lys Asp Asp Gln Val Val
 625 630 635 640
 Val Trp Ser Gly Pro Val Pro Gln Cys Ile Ile Pro Asn Lys Cys Thr
 645 650 655
 Pro Pro Asn Val Glu Asn Gly Ile Leu Val Ser Asp Asn Arg Ser Leu
 660 665 670
 Phe Ser Leu Asn Glu Val Val Glu Phe Arg Cys Gln Pro Gly Phe Val
 675 680 685
 Met Lys Gly Pro His Arg Val Gln Cys Gln Ala Leu Asn Lys Trp Glu
 690 695 700
 Pro Glu Leu Pro Ser Cys Ser Arg Gly Tyr Ser Lys Arg Asn Ser Pro
 705 710 715 720
 Ile Thr Asn Lys Tyr Ser Gly Thr Val Leu Ser Thr Met Cys Gln Pro
 725 730 735
 Pro Pro Glu Ile Leu His Gly Glu His Thr Leu Ser His Gln Asp Asn
 740 745 750
 Phe Leu Pro Gly Gln Glu Val Phe Tyr Ser Cys Glu Pro Ser Tyr Asp
 755 760 765
 Leu Arg Gly Ala Ala Ser Leu His Cys Met Pro Gln Gly Asp Trp Thr
 770 775 780
 Pro Glu Ala Pro Arg Cys Thr Gly Ala Ser Leu Ser Pro Ser His Gly
 785 790 795 800
 Ser Leu Thr Pro Val Val Leu Phe Phe Leu Leu Val Lys Ser Cys Asp
 805 810 815
 Asp Phe Leu Gly Gln Leu Pro His Gly Arg Val Leu Phe Pro Leu Asn
 820 825 830
 Leu Gln Leu Gly Ala Lys Val Ser Phe Val Cys Asp Glu Gly Ser Ala
 835 840 845
 Ser His Cys Val Leu Ala Gly Thr Lys Ala Leu Trp Asn Ser Ser Val
 850 855 860
 Pro Val Cys Glu Gln Ile Phe Cys Pro Asn Pro Pro Ala Ile Leu Asn
 865 870 875 880
 Gly Arg His Thr Gly Thr Pro Pro Gly Asp Ile Pro Tyr Gly Lys Glu
 885 890 895
 Val Ser Tyr Thr Cys Asp Pro His Pro Asp Arg Gly Met Thr Phe Asn
 900 905 910
 Leu Ile Gly Glu Ser Thr Ile Arg Arg Thr Ser Glu Pro His Gly Asn
 915 920 925
 Gly Val Trp Ser Ser Pro Ala Pro Arg Cys Glu Leu Pro Val Gly Ala
 930 935 940
 Asp Gln Cys Asn Val Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn
 945 950 955 960
 Leu Thr Asp Asp Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu
 965 970 975
 Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys
 980 985 990
 Asn Ser Val Trp Thr Ser Ala Lys Asp Lys Cys Lys Arg Lys Ser Cys
 995 1000 1005
 Arg Asn Pro Pro Asp Pro Val Asn Gly Met Ala His Val Ile Lys Asp
 1010 1015 1020
 Ile Gln Phe Arg Ser Gln Ile Lys Tyr Ser Cys Pro Lys Gly Tyr Arg
 1025 1030 1035 1040
 Leu Ile Gly Ser Ser Ala Thr Cys Ile Ile Ser Gly Asn Thr Val
 1045 1050 1055
 Ile Trp Asp Asn Lys Thr Pro Val Cys Asp
 1060 1065

<210> 87

<211> 683

<212> PRT

<213> Homo sapiens

GC773-2-seqlist

<400> 87
 Ile Cys Cys Pro Asp Asp Pro Gln Pro Ala Lys Asp Gln Leu Ala Thr
 1 5 10 15
 Val Pro Lys Asp Ile Pro Leu Asp Cys Asp Cys Val Leu Thr Gly Glu
 20 25 30
 Asp Ile Leu Gly Glu Val Ala Asn Arg Thr Ala Gln Gly Leu Glu Gly
 35 40 45
 Leu Val Ser Asp Ser Ala Cys Thr Val Gly Thr Ile Asp Ala Glu Gln
 50 55 60
 Leu Ser Asp Thr Asp Ser Val Gln Met Phe Leu Glu Leu Glu Lys Glu
 65 70 75 80
 Cys Leu Cys Glu Glu Gly Val Thr Pro Leu Val Glu Leu Gln Asn Gln
 85 90 95
 Ile Ser Ser Glu Gly Leu Ala Ala Ser Gln Asp Ala Glu Asn Leu Leu
 100 105 110
 Val Ile Ser His Phe Ser Gly Ala Ala Leu Glu Lys Glu Gln His Leu
 115 120 125
 Gly Leu Leu His Val Arg Ala Lys Asp Tyr Asp Thr Arg Leu Asp Cys
 130 135 140
 Gly Tyr Phe Asn Thr Leu Asp Ser Ser Gln Val Pro Asn Ala Val Glu
 145 150 155 160
 Leu Ile Ala His Val Asp Ile Met Arg Asp Thr Ser Thr Val Ser Lys
 165 170 175
 Glu Glu Cys Glu Lys Val Pro Phe Ser Pro Arg Thr Ala Glu Phe Lys
 180 185 190
 Ser Arg Gln Pro Ala Asp Leu Asp Ser Leu Glu Lys Leu Asp Pro Gly
 195 200 205
 Gly Leu Leu Asn Ser Asp His Arg Val Ser His Glu Glu Lys Leu Ser
 210 215 220
 Gly Phe Ile Ala Ser Glu Leu Ala Lys Asp Asn Gly Ser Leu Ser Gln
 225 230 235 240
 Gly Asp Cys Ser Gln Thr Glu Gly Asn Gly Glu Glu Cys Ile Glu Arg
 245 250 255
 Val Thr Phe Ser Phe Ala Phe Asn His Glu Leu Thr Asp Val Thr Ser
 260 265 270
 Gly Pro Glu Val Glu Val Leu Tyr Glu Ser Asn Leu Leu Thr Asp Glu
 275 280 285
 Ile His Leu Glu Ser Gly Asn Val Thr Val Asn Gln Glu Asn Asn Ser
 290 295 300
 Leu Thr Ser Met Gly Asn Val Val Thr Cys Glu Leu Ser Val Glu Lys
 305 310 315 320
 Val Cys Asp Glu Asp Gly Glu Ala Lys Glu Leu Asp Tyr Gln Ala Thr
 325 330 335
 Leu Leu Glu Asp Gln Ala Pro Ala His Phe His Arg Asn Phe Pro Glu
 340 345 350
 Gln Val Phe Gln Asp Leu Gln Arg Lys Ser Pro Glu Ser Glu Ile Leu
 355 360 365
 Ser Leu His Leu Leu Val Glu Glu Leu Arg Leu Asn Pro Asp Gly Val
 370 375 380
 Glu Thr Val Asn Asp Thr Lys Pro Glu Leu Asn Val Ala Ser Ser Glu
 385 390 395 400
 Gly Gly Glu Met Glu Arg Arg Asp Ser Asp Ser Phe Leu Asn Ile Phe
 405 410 415
 Pro Glu Lys Gln Val Thr Lys Ala Gly Asn Thr Glu Pro Val Leu Glu
 420 425 430
 Glu Trp Ile Pro Val Leu Gln Arg Pro Ser Arg Thr Ala Ala Val Pro
 435 440 445
 Thr Val Lys Asp Ala Leu Asp Ala Ala Leu Pro Ser Pro Glu Glu Gly
 450 455 460
 Thr Ser Ile Ala Ala Val Pro Ala Pro Glu Gly Thr Ala Val Val Ala
 465 470 475 480
 Ala Leu Val Pro Phe Pro His Glu Asp Ile Leu Val Ala Ser Ile Val

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	485	490	495
Ser Leu Glu Glu Glu Asp Val Thr Ala Ala Ala Val Ser Ala Pro Glu			
500 505 510	505	510	
Arg Ala Thr Val Pro Ala Val Thr Val Ser Val Pro Glu Gly Thr Ala			
515 520 525	520	525	
Ala Val Ala Ala Val Ser Ser Pro Glu Glu Thr Ala Pro Ala Val Ala			
530 535 540	535	540	
Ala Ala Ile Thr Gln Glu Gly Met Ser Ala Val Ala Gly Phe Ser Pro			
545 550 555 560	550	555	560
Glu Trp Ala Ala Leu Ala Val Thr Val Pro Ile Thr Glu Glu Asp Ala			
565 570 575	570	575	
Ala Ala Val Pro Thr Pro Glu Val Ala Ala Ile Pro Ala Ala Ser Val			
580 585 590	585	590	
Pro Thr Pro Glu Val Pro Ala Ile Pro Ala Ala Val Pro Pro Met			
595 600 605	600	605	
Glu Glu Val Ser Pro Ile Gly Val Pro Phe Leu Gly Val Ser Ala His			
610 615 620	615	620	
Thr Asp Ser Val Pro Ile Ser Glu Glu Gly Thr Pro Val Leu Glu Glu			
625 630 635 640	630	635	640
Ala Ser Ser Thr Gly Met Trp Ile Lys Glu Asp Leu Asp Ser Leu Val			
645 650 655	650	655	
Phe Gly Ile Lys Glu Val Thr Ser Thr Val Leu His Gly Lys Val Pro			
660 665 670	665	670	
Leu Ala Ala Thr Ala Gly Leu Asn Ser Asp Glu			
675 680	680		

<210> 88

<211> 174

<212> PRT

<213> Homo sapiens

<400> 88

Ser Glu Gly Asn Lys Arg Arg Leu Ser Thr Ala Ile Ala Leu Met Gly			
1 5 10 15	10	15	
Arg Ser Ser Val Ile Phe Leu Asp Glu Pro Ser Thr Gly Met Asp Pro			
20 25 30	25	30	
Val Ala Arg Arg Leu Leu Trp Asn Met Val Thr Lys Thr Arg Glu Ser			
35 40 45	40	45	
Gly Lys Ala Ile Val Met Thr Ser His Ser Met Glu Glu Cys Asp Ala			
50 55 60	55	60	
Leu Cys Thr Ser Leu Ala Ile Met Val Gln Gly Lys Phe Thr Cys Leu			
65 70 75 80	70	75	80
Gly Ser Pro Gln His Leu Lys Ser Lys Phe Gly Asn Ile Tyr Ile Leu			
85 90 95	85	90	95
Lys Val Lys Val Lys Thr Glu Asp Lys Leu Glu Asp Phe Lys Cys Tyr			
100 105 110	105	110	
Val Ala Thr Thr Phe Pro Gly Glu Ile Ala Met Val Thr Val Phe Leu			
115 120 125	120	125	
Leu Leu Leu Lys Val Phe Gly Ile Leu Glu Glu Ala Lys Glu Gln			
130 135 140	135	140	
Phe Asp Leu Glu Asp Tyr Ser Val Ser Gln Ile Thr Leu Glu Gln Val			
145 150 155 160	150	155	160
Phe Leu Thr Phe Ala Asn Pro Glu Lys Ala Ser Ser Asp Asp			
165 170	170		

<210> 89

<211> 124

<212> PRT

<213> Homo sapiens

<400> 89

Asp Cys Gly Pro Pro Pro Glu Leu Pro Phe Ala Phe Pro Ile Asn Pro			
1 5 10 15	10	15	

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Leu Tyr Asp Thr Glu Phe Lys Thr Gly Thr Thr Leu Lys Tyr Thr Cys
20 25 30
His Pro Gly His Gly Lys Ile Asn Ser Ser Arg Leu Ile Cys Asp Ala
35 40 45
Lys Asp Ser Trp Asn Tyr Ser Ile Phe Cys Ala Ile Ala Lys Cys Glu
50 55 60
Pro Pro Pro Asp Ile Arg Asn Gly Lys His Ser Gly Gly Asp Gln Glu
65 70 75 80
Phe Tyr Thr Tyr Ala Ser Ser Val Thr Tyr Ser Cys Asn Pro Tyr Phe
85 90 95
Ser Leu Ile Gly Asn Val Ser Ile Ser Cys Thr Val Glu Asn Glu Thr
100 105 110
Ile Gly Val Trp Ser Pro Asn Pro Pro Ile Cys Glu
115 120

<210> 90

<211> 294

<212> PRT

<213> Homo sapiens

<400> 90

Ile Ser Lys Asp Arg Lys Glu Arg Val His Gln Gly Met Val Arg Ala
1 5 10 15
Ala Thr Val Gly Tyr Gly Ile Leu Arg Glu Gly Gly Ser Ala Val Asp
20 25 30
Ala Val Glu Gly Ala Val Val Ala Leu Glu Asp Asp Pro Glu Phe Asn
35 40 45
Ala Gly Cys Gly Ser Val Leu Asn Thr Asn Gly Glu Val Glu Met Asp
50 55 60
Ala Ser Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val Ser Ala
65 70 75 80
Val Gln Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val Met Glu
85 90 95
Lys Thr Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln Phe Ala
100 105 110
Ala Ala Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val Thr Glu
115 120 125
Arg Asn Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly Ala Gln
130 135 140
Lys Thr Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val Ala Leu
145 150 155 160
Asp Cys Lys Gly Asn Val Ala Tyr Ala Thr Ser Thr Gly Gly Ile Val
165 170 175
Asn Lys Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Gly Ala Gly
180 185 190
Gly Tyr Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly
195 200 205
Glu Ser Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu Phe His Ile
210 215 220
Glu Gln Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr
225 230 235 240
Met Lys Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys
245 250 255
Thr Gly Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala
260 265 270
Ala Ala Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Asp Thr
275 280 285
Thr Ile Thr Asp Leu Pro
290

<210> 91

<211> 467

<212> PRT

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<213> Homo sapiens

<400> 91

Leu Gln Leu Gly Ala Lys Val Ser Phe Val Cys Asp Glu Gly Phe Arg
 1 5 10 15
 Leu Lys Gly Arg Ser Ala Ser His Cys Val Leu Ala Gly Met Lys Ala
 20 25 30
 Leu Trp Asn Ser Ser Val Pro Val Cys Glu Arg Ile Ile Cys Gly Leu
 35 40 45
 Pro Pro Thr Ile Ala Asn Gly Asp Phe Thr Ser Ile Ser Arg Glu Tyr
 50 55 60
 Phe His Tyr Gly Ser Val Val Thr Tyr His Cys Asn Leu Gly Ser Arg
 65 70 75 80
 Gly Lys Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr
 85 90 95
 Ser Lys Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro Gln Cys
 100 105 110
 Ile Ile Pro Asn Lys Cys Thr Pro Pro Asn Val Glu Asn Gly Ile Leu
 115 120 125
 Val Ser Asp Asn Arg Ser Leu Phe Ser Leu Asn Glu Val Val Glu Phe
 130 135 140
 Arg Cys Gln Pro Gly Phe Gly Met Lys Gly Pro Ser His Val Lys Cys
 145 150 155 160
 Gln Ala Leu Asn Lys Trp Glu Pro Glu Leu Pro Ser Cys Ser Arg Val
 165 170 175
 Cys Gln Pro Pro Asp Val Leu His Ala Glu Arg Thr Gln Arg Asp
 180 185 190
 Lys Asp Asn Phe Ser Pro Gly Gln Glu Val Phe Tyr Ser Cys Glu Pro
 195 200 205
 Gly Tyr Asp Leu Arg Gly Ser Thr Tyr Leu His Cys Thr Pro Gln Gly
 210 215 220
 Asp Trp Ser Pro Ala Ala Pro Arg Cys Glu Val Lys Ser Cys Asp Asp
 225 230 235 240
 Phe Leu Gly Gln Leu Pro Asn Gly His Val Leu Phe Pro Leu Asn Leu
 245 250 255
 Gln Leu Gly Ala Lys Val Asp Phe Val Cys Asp Glu Gly Phe Gln Leu
 260 265 270
 Lys Gly Ser Ser Ala Ser Tyr Cys Val Leu Ala Gly Met Glu Ser Leu
 275 280 285
 Trp Asn Ser Ser Val Pro Val Cys Glu Gln Ile Phe Cys Pro Asn Pro
 290 295 300
 Pro Ala Ile Leu Asn Gly Arg His Thr Gly Thr Pro Pro Gly Asp Ile
 305 310 315 320
 Pro Tyr Gly Lys Glu Val Ser Tyr Thr Cys Asp Pro His Pro Asp Arg
 325 330 335
 Gly Met Thr Phe Asn Leu Ile Gly Glu Ser Thr Ile Arg Arg Thr Ser
 340 345 350
 Glu Pro His Gly Asn Gly Val Trp Ser Ser Pro Ala Pro Arg Cys Glu
 355 360 365
 Leu Pro Val Gly Ala Asp Gln Cys Asn Val Pro Glu Trp Leu Pro Phe
 370 375 380
 Ala Arg Pro Thr Asn Leu Thr Asp Asp Phe Glu Phe Pro Ile Gly Thr
 385 390 395 400
 Tyr Leu Asn Tyr Glu Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser
 405 410 415
 Ile Ile Cys Leu Lys Asn Ser Val Trp Thr Ser Ala Lys Asp Lys Cys
 420 425 430
 Lys Arg Lys Ser Cys Arg Asn Pro Pro Asp Pro Val Asn Gly Met Ala
 435 440 445
 His Val Ile Lys Asp Ile Gln Phe Arg Ser Gln Ile Lys Tyr Ser Cys
 450 455 460
 Pro Lys Gly
 465

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<210> 92
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 92
 His Gly Arg Val Leu Leu Pro Leu Asn Leu Gln Leu Gly Ala Lys Val
 1 5 10 15
 Ser Phe Val Cys Asp Glu Gly Phe Arg Leu Lys Gly Arg Ser Ala Ser
 20 25 30
 His Cys Val Leu Ala Gly Met Lys Ala Leu Trp Asn Ser Ser Val Pro
 35 40 45
 Val Cys Glu Arg Ile Ile Cys Gly Leu Pro Pro Thr Ile Ala Asn Gly
 50 55 60
 Asp Phe Thr Ser Ile Ser Arg Glu Tyr Phe His Tyr Gly Ser Val Val
 65 70 75 80
 Thr Tyr His Cys Asn Leu Gly Ser Arg Gly Lys Lys Val Phe Glu Leu
 85 90 95
 Val Gly Glu Pro Ser Ile Tyr Cys Thr Ser Lys Asp Asp Gln Val Gly
 100 105 110
 Ile Trp Ser Gly Pro Ala Pro Gln Cys Ile Ile Pro Asn Lys Cys Thr
 115 120 125
 Pro Pro Asn Val Glu Asn Gly Ile Leu Val Ser Asp Asn Arg Ser Leu
 130 135 140
 Phe Ser Leu Asn Glu Val Val Glu Phe Arg Cys Gln Pro Gly Phe Gly
 145 150 155 160
 Met Lys Gly Pro Ser His Val Lys Cys Gln Ala Leu Asn Lys Trp Glu
 165 170 175
 Pro Glu Leu Pro Ser Cys Ser Arg Val Cys Gln Pro Pro Pro Asp Val
 180 185 190
 Leu His Ala Glu Arg Thr Gln Arg Asp Lys Asp Asn Phe Ser Pro Gly
 195 200 205
 Gln Glu Val Phe Tyr Ser Cys Glu Pro Gly Tyr Asp Leu Arg Gly Ser
 210 215 220
 Thr Tyr Leu His Cys Thr Pro Gln Gly Asp Trp Ser Pro Ala Ala Pro
 225 230 235 240
 Arg Cys Glu Val Lys Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro Asn
 245 250 255
 Gly His Val Leu Phe Pro Leu Asn Leu Gln Leu Gly Ala Lys Val Asp
 260 265 270
 Phe Val Cys Asp Glu Gly Phe Gln Leu Lys Gly Ser Ser Ala Ser Tyr
 275 280 285
 Cys Val Leu Ala Gly Met Glu Ser Leu Trp Asn Ser Ser Val Pro Val
 290 295 300
 Cys Glu Gln Ile Phe Cys Pro Asn Pro Pro Ala Ile Leu Asn Gly Arg
 305 310 315 320
 His Thr Gly Thr Pro Pro Gly Asp Ile Pro Tyr Gly Lys Glu Val Ser
 325 330 335
 Tyr Thr Cys Asp Pro His Pro Asp Arg Gly Met Thr Phe Asn Leu Ile
 340 345 350
 Gly Glu Ser Thr Ile Arg Arg Thr Ser Glu Pro His Gly Asn Gly Val
 355 360 365
 Trp Ser Ser Pro Ala Pro Arg Cys Glu Leu Pro Val Gly Ala Gly Gln
 370 375 380
 Tyr Pro Leu Pro His Ile Leu Asn Gly Phe Arg Ile Cys Ser Glu Val
 385 390 395 400
 Glu Val Phe Glu Tyr Leu Asn Ala Val Thr Asp Ser Cys Asp Pro Ala
 405 410 415
 Pro Gly Pro Asp Pro Phe Ser Leu Ile Gly Glu Ser Thr Ile Tyr Cys
 420 425 430
 Gly Asp Asn Ser Val Trp Asn His Ala Ala Pro Glu Cys Lys
 435 440 445